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A PROFILE OF RURAL GIRLS OF PARBHANI DISTRICT

BY

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B.Sc.(Home Science)

DISSERTATION

SUBMITTED TO THE MARATHWADA AGRICULTURAL
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PARBHANI.

1993

CANCIDATE'S DECLARACION

I, hereby declare that the dissertation or part thereof has not been previously substitud by me for a degree of any University.

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(Maje 5.3.)

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submitted in Pertial fulfilment of the requirement for
the sward of the degree of Master of Science (HomeScience) in Child Development and Family Relationships
is a piece of the result of bonafide research carried
out by Surekha S. Bhale under my guidance and supervision.
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CONTENTS

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Chapters		Page
₹.	INTRODUCTION	14
2	REVIEW OF LITERATURE	6-15
3	MATERIALS AND METHODS	16-25
4. · · ·	RESULTS AND DISCUSSION	26-75
5 .	SUMMARY	76-82
	LITERATURE CITED	83-87
1	ANNEXURE	88-125

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INTRODUCTION

INTRODUCTION

* When women are neglected, humanity is deprived of half of its energy and creativity*. by Late Prime minister Mrs. Indira Gandhi.

According to the census of 1991, India's total population is 84,39,30,861. out of it 67.70 crores population is located in rural areas. The female population in total is 49 per cent and out of female population, 46 per cent is comprised of female children (below 18 years). A majority of these female children in India are deprived of basic needs due to socio-cultural and economic conditions.

Although the Indian constitution, the five years plans, strategies and programmes of social development have been focusaing attention on children and recently on women development, yet the concept of girl child who is victim of the gender bias, is of recent origin. The present neglectful situation of the girl child arises out of lower social status of women and the traditional gender bias. (Chowdhary, 1990).

A girl is expected to take orders end obey. A boy is encouraged to think for himself and make decisions. A girl is expected to cope with problems and crisis, but be guided by a man when it comes to business and finencia matters or political wisdom and understanding. (Majumdar, 1990).

The status of girl child is although distinctive but can not be differenciated from the status of mother because both are embedded with same socio-culture secto-religious and historical forces. (Khan, 1990).

The status and position of the mother in the household and the community goes down just because she has given birth to a daughter (Chosh, 1991);

Even today in millions of homes, the birth of a girl produces a bleak atmosphere while the birth of a boy is an occasion for exuberence of joy (Gengrade, 1986).

The preference for sons and the irrational, religious sentiments that they were vital for performing the lest rites had added to the discrimination egainst the girl child. In India, the downy system was also responsible for the low status of the girl child. One telugu saying is that, * bringing up a girl is like watering a plant in a neighbour's garden (NIPCCD, 1988).

Born in indifference and reared on neglect the Indian girl child grows up looking upon herself as inferior and subservient. This negative self image shapes her personality and moulds her into the stereotype of submissive and self secrificing daughter, wife and mother. In India girl child is neglected as she is considered as economicaly burden. (Hati, 1992).

Gender discrimination, especially in developing countries, is traced to lack of economic security. Sons are considered to be economically productive members and providers of financial support in old age. However, the belief that a daughter is an economic liability can be countered with the ergument that in rural India, where the bulk of the people live, a girl works for 9 hrs a day at an average of 315 days in a year in the field and annual labour which at the minimum wages could cost Rs.2,200 to hire (Sarswethi, et al. 1991).

The threat of becoming * imporal * and * polluted* were the major reasons for not sending the girls outside their village for education, after reaching puberty age (Charyulu and Reddy, 1987).

Despite of consitutional safeguards after independence, the position of girl child continues to be much lower than that of a male child position of girl further vorsened when self-restraint and self-denial were glorified as deserving qualities of a good girl. She is generally known as a temporary guest in her parental home or a bird of passage. (Chowdhary, 1990).

A girl child is neglected from her birth and systematically deprived of physical and emotional care

and love. This deprivation leads to an unequal share in terms of food, clothing, health care, education, family income and property which has a tremendous impact on her physical and mental health and personality development, (Pendey, 1990):

e decade after a National policy for children, a national plan for the Development of woman and decade of girl child (1990-2000 AD) were adopted the girl child who embedies both youth and womenhood is still a barely discornable shadow on the periphery of notional policy and public awareness. Born into indifference and reared on neglect, she is caught in a web of submissive secondary entity in the scheme of things in matters of food, health and education (Mendonca, 1989).

Hence it is folt necessary to study the profile of rural girls in low-middle and middle-socio-economic status families in Perbhani district with the following objectives.

To collect date on growth of rural girls in Parbhai district to investigate their growth pattern and to compare it with National Centre for Health Statistics (NCHS) date of American girls.

- 2. To study general meal pattern of rural girls.
- 5. To find out general health problems and dere taken of rural girls.
- 4. To analyse the activity and time spending patterns of rural girls.
- 5. To assess the investments made by rural families for educating their daughters and to know parental attitudes towards their daughters in rural area.

REVIEW OF LITERATURE

CHAPTER 2

REVIEW OF LITERATURE

Resume of the work on the study of profile of rural girls was observed to be very scanty. The available literature pertinent to this study is presented below under broad heads.

2.1 Growth Pattern in Rural Girls.

According to Mahgir (1981), in rural areas the mean for weight in the age years 10,11 and 12 show significantly higher values for the boys as compared to the girls. During the age period 14-18 years the girls showed significantly higher mean values as compared to the boys. There was a trend for significant increase in weight both for boys and girls with increase in age. The rural girls pointain higher values for mean increments during 12-17 yrs, the difference being statistically significant only at the age of 14 yrs. In rural areas the height values showed progressive significent increase with age in boys and girls upto 18 yrs of age. The observed peak height velocities were 5.8 and 6.4 on/year during 12-13 grs in rural boys and girls, respectively. The mean values both for boys and girls were identical from age period 10-13 yro and also at 15 years age. Thereafter, girls are significantly taller than boys.

Sathyavati et al (1981) reported that, the rural girls showed higher mean values than their male counterparts in the early part of addlescence. However, after 16 yrs, of age, rural boys showed a significantly higher growth as compared to the rural girls. The comparative study between rural and urban girls reveals that rural girls are significantly sheed of their urban counterparts during 10-21 yrs of age.

The data based on different research have shown that girls in India do not achieve their full height and weight potential on account of dietery insufficient cles. In fact, ICMR data of 1955 and NNMB data of 20 yrs later, both for rural girls, demonstrate that there is no evidence of secular trends indicating improved growth performance in the succeeding generational feature expected of all successful developing societies. (Copalan and Kaur, 1989).

2,2 Age of Onset of Menarche.

ICHR study conducted in 1972 on gapwih and physical development of Indian infants and children revealed mean age at menerohe for Maharnahtrian urban girls was 13.70 years and rural girls 14.63 years.

Study by Agarwal et al (1981) found that the mean age for menarche in upper socio-economic Verenasi girls was found to be 12:75 yrs while the middle socio-economic group Indian girls in different regions had mean menarchal age of 13:25 (Chitoor), 13:79 (Agra) and 14:58 (Kottayam) yrs, A significant effect of geographical regions and socio-economic groups on the event of menarche was observed.

The mean age at menarche of the girls of Delhi was even less than the reported mean age at menarche of American girls 12.0yrs, but the American girls were Jom taller than those of Delhi at the 18th year. Apparently, the final adult height that is achieved is not necessarily related to the age at menarche. Obviously it is not just the socio-economic status alone but other factors as well that determine the age at menarche. (Gopalan, 1989).

Among Indian families, the largest share of food is usually given to the bread winner next to the boys and last to the girls and women in the household. Indian women are known to eat last and least. Male members have a larger say in the decision for food allocation as is indicated by observation from data collected from Meharashtra (cited in Pandey, 1990).

The child which errives at adolescence in a stunted state because of early malnutrition has the intere potential to achieve. during its adolescent growth phase on even higher growth velocity than the non-stunted child which had not suffered early malnutrition. but for such higher growth velocities to actually materialise and reach their full peak, addit: onel nutritional in puts over and above what the habitual poor dictries of these children provide, may be necessary such as increased intake of calories. protein, calcium, iron and other nutrients, which are essential to sustain such an enhanced growth velocity over an extended period. In the absence of these edditional inputs, the physiological opportunity provided by adolescence to correct growth deficits that had carlier accrued may not be fully availed of and the child would end up as a stunted adult, thus missing the " Second round " even as they had missed the first. (Gopelan. 1989).

Ramana (1990) explains that, illiteracy is the greatest barrier for the improvement of the status of female in our country. The NNMB data reveals that the child nutrition is better in households having literate women.

According to Mittal (1992) data based on household expenditure show a positive discrimination against women in the sharing of foods and other items in the normal household. Available data on the distory consumption enong one to eighteen years show that girls consume much less than boys. This situation has decisive adverse consequence on the health status of young mothers and their affapring, more so when nutritional deprivation, in terms of calorie adequacy, continues throughout pregnancy and laptation.

2.4 Activity Pattern of Rural Ciris.

Burra (1989) recorded that burden of household duties falls largely upon female child. In the rural ereas girls are engaged in looking after younger siblings, cooking, elsening, fatching and carrying. This releases adults for more productive and remunerative work. Little girls are seen carrying small pots on their heads, following their mother or elder sisters to the well. Vater carrying which is little more than play to being with nevertheless makes a useful contribution to household work. Older girls go with their parents to the field to help them in work such as sowing, transplanting, weeding and harvesting, collecting fuel and searing away birds at fields.

Remana (1990) emphasized that usually it is believed that a wamen spends less energy than a man. A survey in rural areas however, showed a reverse trend. The labour contributions of man, Women and children were found to be 31%, 53% and 16% respectively if activities like household obsers, rearing of children, fetching water, collecting threwood and corrying meals to fields for the men folk were also taken in to account. In India a wage premium for male over female labour exists and this causes parents to rationally favour boys over girle to enhance the family resources.

The study of Sabramaniam (1991) conculded that most of the girls were doing domestic work. A combination of domestic and wage work was also found to be high. There was clear cordiation between the age of girl oblid and her work pattern. There is a shift from prodominally domestic work to wage work between five to fifteen years of age. The number hours the girl child works also increases progressively with age. Siblings appear to have a major role to play in the work pattern of the girl child. Birth order shows that where there are younger miblings who require care, or when the male children are doing wage work, the girl child spends more time on domestic work. Larger the family the greater the chances of doing wage work.

Anandlekshmi (1991) Studied that around the age of six the girl child linds that she has to take part in a large number of tasks in the household. Some of them would be related to earning a livelihood and other to sustain and maintain the bousehold that is economically marginal, when at that age other children stort formal education.

The study of Mandel (1991) conducted in Wher reveals that as compared to males work participation rate for girls in 0-14 yrs has been increasing over the lest few years. It increased from 2,65% in 1971 to 2.95% in 1981 while for males for the same age group, it declined from 6,65% in 1971 to 5,46% in 1981. In 15-19 year age group the rate increased by 17% for females and declined by 6% for males. It is well known that we sent work is invisible. The girl child is engaged in household chores as soon as she is 5-6 yrs of age. She may be engaged in looking after younger siblings or in cleaning the house or halping the mother in household activities.

2.5 School Enrollment and Education of Rural Cirls

According to Sheh and Nogla (1983) Majority of rural woman had favourable attitudes towards the primary education of their daughters and had favourable attitudes with regard to the three aspects of the primary education namely 'Velue 'Expenditure ' and 'Escilities '.

chatterjee (1987) reported that although female enrollment is increasing the gap between females and males is perhaps widening. This may be largely due to socioeconomic feators related to the need for girls to work both in and out of house versus the low return perceived to their education. Also related to the continuous practice of early marriage of girls. And not the least it is due to the poor sysilability of fepilities for girls in the schools.

Emakeron (1989) reported that for girls the begining and the end of education is connected with domestic tasks entrusted to them by the family and the lack of interest shows by parents in their daughter's education in contrast with that shown in the educational progress ofboys.

Chowchery (1990) emphasized despite the fact that in the Indian culture, education (Vidya) is symbolized by goddesn Sorsweti, yet girls education does not get much attention because of the traditional bias against girls going to school, this is due to early marriage, the elder girls looking after their younger siblings, girls looking after household, cattle, grazing, fetching, irrelevance of girls education, absence of female teachers etc.

As per Mandel (1991), in Bihar wide range of differences in male and female literacy rates was a reflection of the low level of enrolment of girls in schools as compared to that for boys. Perhaps higher failure rate in examination is evident in reaching universal votention or in ensuring that a child who isenrolled in school is retained there in till he completes the class 8th or the age of 14.

2.6 Attitudes of Rural People Towards Girls.

According to Anandlakshmy and Bajaj (1981).

the sex of the child determines to a larger extent the kind of experiences the child would face in the future. Restrictions are imposed on the behaviour, movement and dress of girls as early as four year of age. Young unmarried girls, by and large, lead a life of domesticity unhampered by school routines or tasks.

Significant negative relationship was found between the total number of children and the attitudes of rural mother. More number of respondents having loss number of children had a favourable attitude as compared to the respondents having more number of children.

(Shah & : Nagle, 1983).

Das Gupta (1987) reported the reason for discriminating against females do not lie primarily in economic bardship for India as a _ whole , the evidence suggests that son preference is primarily culturally determined and scaricity of resources may atmost accentuate the effects of sex bias within a given culture. Indian scalety in general is patriarchel, such that parents benefit more from having sons than daughters.

IATERIALS AND METHODS

CHAPTER 3

MATERIALS AND METHODS

The present study was planned to investigate the profile for rural girls in Parbhani district. Meterials and methods used in this investigation are presented under the following heads.

- 3.1 Locals of the study
- 3.2 Selection of the sample
- 3.3 Developing interview schedule
- 3.4 Selection of tools and techniques
- 3.5 Methods of data sollection
- 3.6 Research Degign and technique
- 3.7 Statistical englysis

3.1 Locale of the study

The study was conducted in ten rendomly selected villages- Nandgaon, Asola, Asral, Hatta, Shinde Takli, Male telkli , Chudava, Erendombyer, Khali, Dharkhed each two villages from randomly chosen five talukas namely Parbhani, Bassath, Selu, Purns and Gangakhed located in Parbhani District of Marathyada region.

Nearby location, similar socio-economic and cultural conditions, and casy to approach by state transport were the criteria for selection of these villages.

3.2 Selection of Sample

A stratified random sample of 200 families having a girl child in the age group of 7-15 yrs was selected from randomly chosen ten villages. The sample girls were chosen at random from low-middle SES & middle SES groups to study the impact of SES on the status of rural girls. Low-middle SES and middle SES groups were only chosen due to the inavailabilit of the sizable sample girls of the same age range in other SES categories in the selected villages. The details are shown below.

Socio-ec	otenara	status	cates	agina

Age (years)	Low-middle SES	Middle SES
7-9 10-12	35	35
10-12	35	35
13-15	30	30
Total	100	100

3.3 Developing Interview Schedule

A structured interview schedule was formulated to elicit the general and specific information pertinent to the investigation. The interview schedule mainly focussed on health and nutrition, menarche, education work pattern of rural girls and parental attitudes towards them. Prior to finalization, the schedule was pretested for its clarity, validity and adequacy on twenty rural girls exclusive of the final sample. Necessary modification were made to overcome the ambiguty and difficulties experienced in the data collectito finalise the schedule. (Annexure I)

3.4 Selection of Tools and Techniques

3.4.1 Socio-sconomio status scale

The selected sample was classified into various categories of socio-economic status based on socio-economic status scale (Raral) developed by Percek and Trivedi (1964). The scale is based upon the information about the rural family like caste, occupation, education, social participation, lend, house, farm power, material possessions and type of family. The socio-economic status of a family was determined by applying the following classificatory scale to the total obtained score.

••	Category of Class	Total Score
1.	Upper class	Above 43
2.	Upper -middle class	33-42
3 *.	Middle-class	24-32
4.	Lover-middle class	13-23
5.	Lower class	Below 13

3,4,2 Age

Rural girls age was calculated to the nearest month and year of interview day on the basis of information reported by the subject where ages were generally known and also by cross-checking from date of birth certificates. In the absence of the above, it was

deligulated by quastioning the sample mothers to recall the worth and year in which her daughter was born as the mathod which was generally practiced.

5.4.3 Anthropomotric measurement techniques

Height: The subject was maked to remove her footwarr. She was made to stand straight with her heals, buttooks and shoulders touching smooth surface of wall and with feet parallel, and placed together, with the arms harging at the sides in a natural manner. The subject was requested to look straight at her eye level. A plastic scale was kept on her head pressing the hair and making contact with top of the head. With a pencil later marking was done on the wall and height was measured with the help of non-stratchable metal tape having 0.5 on sensitivity.

Weight : Weighing machine was kept on flat auriace and adjusted to zero. The subject was asked to remove footwear and heavy gaments (woolens) if any and then was made to stand straight on the centre of machine platform without any support. The reading was noted down from portable weighing machine having a range of 0.1 to 125 kg and 50 gm sensitivity.

3.4.4 Age of onset of menarche

The girls were esked to recall the month and year of onset of memorohe for essessing the age for the same.

3.449 An international reference growth standard

It had been argued that on the basis of available world-wide data, dietary and environmental constraints and not genetic factors, are the predominant determinants of difference as between the growth performance of children of the developing and developed countries. An expert working group of WHO constituted in late 1975 to advise on the use of anthropometric indicators of nutritional status in surveys and for nutritional surveillance, had recommended on the data world-wide, that the data assembled by the National Centre for Health Stastics (NCHS) of the U.S.A. were best (Cited in Lancet and NFI project) situated for use as an international reference. Hence, in this study NCHS data is used for comparision.

3.4.6 Training of investigator

Prior to the research work the investigator was edequately trained by the local pagdiatrician for taking anthropometric measurements of girls in order to avoid erros. Further through few trails the ability of the investigator in adoption of correct techniques

for taking anthropometric measurements was ensured.

3.4.7. Recording activity and time-spending patterns of rural girls.

The sample girls were requested to recall and tested all the activities generally performed by them from down to dusk and the amount of time approximately spent on such activities. Leter the stated activities were analysed and clubed under board heads and the amount of time (mean ± SD) spent on those activities was calculated. The reliability and validity of this information was checked by the investigator through naturalistic observation.

3.4.8 Neturalistic observation

Besides interview, naturalistic observations of twenty per cent of the selected girls (40) was done from dawn to dusk (6.30 am to 6.30 p.m.) to find out reliability of the information obtained from girls through personal interview and to gain more insight about rural air of Season (man.-March) girls. Time block of three to four hours was made with fifteen minutes interval for observation. The observated items and time spent as denoted on the prepared checklist. (Annexure II). All the necessary precaution were taken so that the respondents were not conscious of being observed by the investigator.

3.5 Methods of data collection

The data was collected from the selected girls and their parents by implementing survey through personal interview method by the investigator by paying 1-3 visits to them. Approximate time taken for conducting complete survey was 70-100 minutes. on the basis of finalized structured interview schedules by naturalistic observation and by following standard procedures for taking anthropometric measurements in their homes.

3.6 Research Design and Techniques

The variable tested in this study included independent variables such as

- 1. Chronological age of girls
- 2. Socioeconomic atatus of respondents families.
 Dependent variable are
- 1. Growth of girls (height, weight)
- 2. Health care of girls
- 3. Food intake
- 4. Activity and time spending pattern
- 5. Investments made on educating girls
- 6. Parental attitudes toward their daughters.

3.7 Plan of Analysis

Correlation and regression analysis was carried out as per the standard procedure given by Snedecor and cochran (1956) to test the relation—

ship between age (independent veriable) and different other veriables such as height and weight

Students 't 'test and 'z' test were used to compare the data of middle and low-middle SES groups on health, food intake, educational investments, parental attitudes.

Actual weight, height and weight/height percentage, were explained as the ratio to standard weight, height, and weight/ height.

Actual measurement * 100

Standard measurement: From NCHS growth curves published in American Journal of clinical nutrition (1979).

To test the reliability of data reported by the respondent, correlation coefficient were estimated between reported data of time and observed data of times:

The percentage of agreement on the reliability of reported activities was calculated by using the formula (Saraswathi and Dutta, 1988) given below;

Agreement +
$$\frac{(U-Be)}{(U+2x X)}$$
 x 100

- U Total number of instances agreed. (recorded activities)
- De * Total number of disagreement.

 (not recorded) in coding
- X = Total number of clauses (activities coded by one person and not by another.

The sign test was applied to find out the trend of growth of rural girls in low-middle and middle SES group. The null hypothesis tested under this was Ho: $P(x_A > x_B) = P(x_B > x_A)$ the probability of the test under Ho was estimated as per given formula. The null hypothesis was rejected if $P(x_A > x_B) < 0.05$

Where N * Total number of observation

* Number of positives out of N

Comparis on of the time spending patterns of the selected age group rural girls was made between low-middle SES and middle SES groups by using the formula given below.

Where mean I was of selected age groups girls of low middle SES and

Mean 2 was of selected age groups girls of middle SES

RESULTS AND DISCUSSION

CHAPTER 4

RESULTS AND DISCUSSION

The study entitled " The Profile of Sural Cirls of Parbhani District " was carried out in randomly selected ten villages belonging to five talukas of Parbhani district of Marathwada region. The investigation was undertaken with specific objectives in order to study the profile of rural girls.

The obtained data were pooled, analysed, tabulated and discussed under the heads given below.

- 4.1 Background Information
- 4.2 Growth of Rural Cirls
- 4.3 Food Intake and Meal Pattern
- 4.4 Health core
- 4.5 Activity Patterns
- 4.6 Investments and Efforts made in Educating Rural Siris
- 4.7 Parantal Attitudes Towards Their Daughters
- 4.1 General Information of Rural Cirls and Their Parents.

Table 1 General information of parents of the sample Girls.

Particulars Socio-economic status of families						
A)	Age (years)	Low-Middle SES (100)			Middle SES (100)	
		Mother	Fath	er Wother	Fether	
	20-30	4	4	.22	1	
	30-40	75	63	69	74	
	40-50	21	37	9	22	
	-5 0		**	•	3	
B)	Education			•	•	
	Illiterate	84	29	77	5	
4:	Primary	15	53	21	42	
	Middle	4	15	1	25	
	High-school	***	3	1	26	
	Graduation	•	***	•	2	
c)	Occupation					
	Agril, Labourer	5	9	**	-	
	Caste Occupation	÷	8	***	•	
	Puslness	400	9	•	, 	
	Cultivation		69	*	88	
,	Service	***	9	***	12	
	Housevife	95	· 👄	99	•	
r)	Type of family	Low-	Middle	SES Middle	SES	
₩. #	Nuclear	- -	74	74		
\$	Extended	~	6	6	•	
	Joint		20	20		
Ė)	Income per annum					
•	Below R. 20,000		4	B. 35,000-40,000		
,	B, 20,000-25,000		21	B. 40,000-45,000	•	
	B. 25,000-30,000		35	B: 45,000-50,000	43	
	R. 30,000-35,000		40	Above B. 50,000	15	

Table 1 deals about the general information of parents of rural girls. It is evident from the Serial "A" of the Table that pajority of the rural girls parents in both the SES groups belonged to the age range 30-40 years followed by 40-50 years and 20-30 years. Serial 'B' of the Table 1 revealed that majority of the mothers were illiterates and 42-53 per cent fathers had primary school education in both SES groups. From the data of the Table 1 at serial 'C', it can be concluded that majority of the mothers were housevives while majority of fathers had cultivation as their primary occupation. Regarding type of family. Serial 'D' of Table 1 indicated that 74 per cent parents had nuclear type families and 20 per cent had joint families in both SES groups. Serial 'E' of Table 1 denoted that in lowmiddle SES group 40 per cent of the parents had annual income of 15. 30,000-35,000 followed by the income range of R. 25,000-30,000 (-35%) and below R. 20,000 (4%). On the other hand in middle SES group 43 per cent parents had the annual income ranging b. 45,000-50,000 followed by the income range of B. 40,000-45,000 (31%), above B. 50,000 (15%) and R. 30,000-40,000 (11%).

4.1.1 Distribution of rural girls according to age and SES
Table 2 Distribution of Selected rural girls according to
age and socio-economic status

Socio-economic status of girls

Low-Middle SES (100) Middle SES (100)

Mean age	Number	Meen age	Number
(years)	(190)	(years)	(100)
7:4	14	7.4	14
8.4	14	8.5	9
9,6	13	9:4	16
10.6	13	10.4	10
11.6	12	11.6	10
12.6	9	12.4	14
13.4	74	13.5	7
14.5	5	14.4	12
15.2	6	15.3	. 8
	· · · · · · · · · · · · · · · · · · ·	•	

Table 2 illustrates the distribution of selected rural girls based on their ego and socio-economic status. In low_middle SES groups the girls lowest mean age was 7.4 yrs and the highest mean age was 15.2 yrs and at each enlisted mean ages the number of girls ranged from 5-14. In middle SES group 7.4 years and 15.3 years were the lowest and highest mean ages of girls respectively. The distribution range of girls was 7-15 for each studied mean age. Out of 200 rural girls belanged to low-middle SES and root belonged to middle SES groups.

4.1.2 Age at Menerche

Table 3 Hean age at cenarche of rural girls.

SES Groups	Mosh age		
Low-middle	13,63 ± 0,44		
Madie	13.18 ± 0.49		

The mean age at memorche of rural girls is cited in table 3. In low-middle SES group girls reached memorche at the age 13.63 ± 0.44 while it was 13.48 ± 0.49 for middle SES group. The mean age at memorche of the rural girls of the present study is lessor than the reported mean age 14.6 years for Maharashtrian rural girls by ICM (1972) and more than the

T 2380

reported age of lonbay (12.4 years) affluent girls by NFI (1989).

4.2 Growth in Rural Cirls

Monourement of height (Stature) and weight provide important cluss whether the individual is growing properly for egg, about health and nutritional well-being. Body measurements plotted on growth charts indicate whether individual's growth is obnormal or normal or subnormal. (Annexure III.)

4.2.7Comperison of Mean Meights of Rural Ciris.

The meen height of low-middle and middle socio-economic status rural girls according to the ir age are presented in table 4. These differences in middle SES girls at 8+ might be due to their ill health and under nourishment ofter age 7+ which might not have contributed to more increment in their height; and at age 15+ it might be due to relatively early onset of memerche in middle SES group (15.18± 0.49) girls as compared to low-middle SES group, due to which girls gained greater increment in height (growth spurt) in the year preceeding the memorche, which hater gradually slowed down. However, the sign test revealed no

significant difference between the overall mean heights of low-siddle and siddle SES groups sural girls.

It is obvious from the measurements that there was a sudden increase in height (Peak) of girls between 17+ and 12+ years in low-middle SES group and between 9+ and 10+ years in middle SES group due to the begining of puberty growth sport.

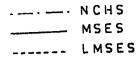
In middle SES group mean heights of girls found to be slightly better than the low-middle SES group till the age 14+. However, at the age 8+ and 15+ these girls found to be inferior to the girls of low-middle SES group.

Table 4 Comparis on of mean heights (cm) of rural girls;

ige (years)	Mean height (ca) Lorentagle SES (100)	of girls Middle SES (100)
7+	109.93 ± 6.70	114.50 2 6.50
5 +	117.79 2 6.75	115.33 ± 7.53
94	122,62 5 4.21	123.44 1 1.05
10+	123.62 ± 6.05	132710 ± 7.92
***	125.08 ± 6.57	136.20 2 6.33
12%	136.67 ± 9.20	140,29 ± 5.09
15+	160.75 ± 6.60	142.43 ± 8.90
14+	146.40 ± 9.47	151,03 ± 4,76
154	156.25 2 3.94	194,50 ± 4.00

Sign test under HO is P+0.09. Cal. Prob.is greater than P< 0.05. Hence the differences are non-significant.

The mean heights of the (Present study) rural girls have been compared with growth chart of American girls (SCHS) at 50 percentils of corresponding ages (fig.1). Figure 1 clearly indicates that in respect to statute the rural girls in both the SES groups found to be significantly aborter than the NCHS girls.



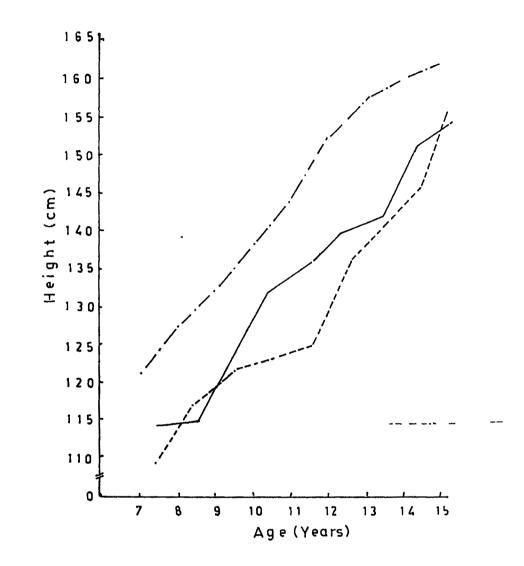


Fig 1 COMPARISON OF MEAN HEIGHTS OF RURAL GIRLS, (PRESENT STUDY) WITH NCHS DATA

Correlation and regression enalysis for beight/ oze was estimated by linear regression. Co-efficient of correlation is positive and significant. Out of the total variations, 98% . 95% and 97.6% variations in height, in NGIS data (200,99") low-middle SES, (200.97" and middle SES (1-0.57) respectively are emplained by oze of girls. This reveals that with increase in age. height of ciris increases. In respict to increase in height (on)/year it was observed that with one year Increase in age acong girls height increased by 5.45 cm in (NCHS) American siris [(yes.5747_+04+5.4500_+00(x)] . by 5265 on in les-aldite ses girls [(y=0,4669, + 01+ 5.4256 + 00(x)], and by 5.29 on in mission 525 stris [(ye7.7380_+01+5.2930_+00(x)] . There was no significant difference among RCHS girls and the rural girls of present study as regards to rate of increment in height.

Table 5 Elatribution of rural girls into vortous cotegories of growth based on their stature.

Percentage of Standard height	Growth cotegories	Percentage of low-middle SES (100)	
Above 100	Abnormal	♣ .	04
90-100	Normal	49	64
Briov 90	Subnormal	91	32

Effort was made to express height of the rural girls of both the SES groups as a percentage of the standard height MCHS date in order to find out percentage girls folling into various categories of growth; obsormal, normal and subnormal.

Significantly more number of girls in middle SES group had normal stature. On the otherhand significantly more number of girls in low-middle SES group belonged to subnormal category of growth for having got height below 90% of the standard height. Those results on the height of rural girls are similar to the findings of Gopplen and Eaur (1988).

4.2.2 Comparis on of Mean Veights of Rural Ciris.
Table & Comparis on of mean veights (kg) of rural girls

Age	Mean weights	(Kg)of rural cirls
(years)	Low-middle SE3 (100)	Magle Ses (100)
7+	17.42 ± 1.46	16.17 ± 3.38
ê*	19.14 ± 1.32	18.63 ± 1.78
9*	21,36 2 3.22	23.31 ± 5.21
10+	22.23 ± 1.91	25.60 ± 3.92
144	21,66 ± 2.05	26,30 ± 3,45
12>	29.61 ± 7.40	28,75 ± 16,74
134	34,12 ± 4,39	34,21 ± 6,15
140+	35.90 ± 4.74	39.33 ± 2.53
15+	42.75 ± 3.77	40.75 ± 1.53

Sign test under H_0 is pro-253 Call Prob. is steater than py 0.05. Hence differences are non-significant.

..... NC H S MS E S L MS E S

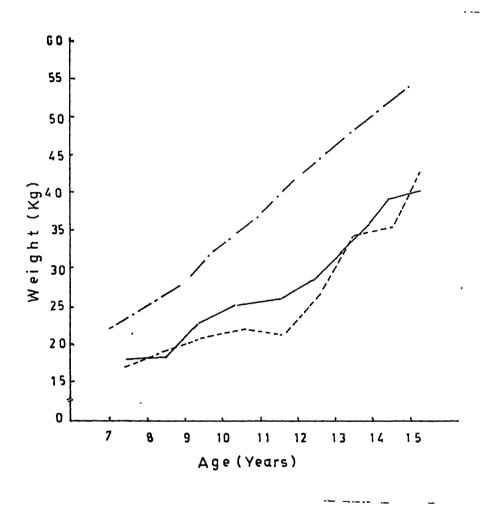


Fig.2 COMPARISON OF MEAN WEIGHTS OF RURAL GIRLS (PRESENT STUDY) WITH N C H S DATA

Table 6 illustrated that the mean weights of low-middle SES and middle SES rural girls according to their age The results indicated that middle SES girls were relatively heavier than their counterparts at the ages 7+, 8+, 9+, 10+, 11+, 13+, 14+, while it was vice-versa at 15+ ago. This might be due to relatively early onset of menarche (13.18 ± 0.49) in middle SES group girls as compared to low-middle SES (13:63 ± 0:44) who generally experience greater weight gain one year just before (12 years) and just after (14 years) of menarche, and then gradually reduces. This also indicated that weight gain has significant positive association with age at menarche.

However, the sign test revealed no significant difference between the mean weights of low-middle and middle SES rural girls. The Mean weights of the sample girls have been compared with (NCHS) data of American girls at (50 percentile) of corresponding ages (fig.2) The curves in fig 2 indicate that the girls in both the SES groups found to be significantly lower than the NCHS data on similar age girls in their weight.

Correlation and regression analysis for weight/
age was estimated by linear regression. Co-efficient
of correlation was positive and significant. Out of
the total variations 99 per cent. 98 per cent and 95.8
per cent variations in girls weight in NCHS data (r =0.99**)
low-middle

vere explained by their age. This illustrates that with increase in ege there age increase in weight of gipls. In respect to increase in weight/year, it was recorded that with one year increase in ege, weight increased by 4.13 kg in (NCHS) American girls [(y = -8.0222, + 00 + 4.1333, + 00 (x))] ; by 3.50 kg in law-middle SES group [(y= -8.2497, + 00 + 5.0245, + 00 (x))] and by 2.97 kg in middle SES group, [(y = -5.7029, + 00 + 2.9590, + 00(x))]. There was no difference between the weight increments of low-middle and middle SES groups. However, the increment in weight of American mirls at (50 percentile) was significantly ears than the present study rural girls.

Attempt was made to empress the weight of the rural girls of both the SES groups as a percentage of the standard weight-NCSS data, in order to findout percentage of girls folling into the categories of growth-summers), normal and submormal.

Table 7 Distribution of growth based on their weight-

Pérce	atage	Growth	Percentage of girls		
		categories	Low-middle SES (100)	Middle SES (100)	
Above	100	Atmortes	·	4	
•	90-100	Normal	*	8	
Delow	90	Subvormal	100	88	

Table 7 implies that majority of the middle SES girls belonged to girls and all the immediate SES girls belonged to embrormel category of growth with regard to weight as they had below 90 per cent of the standard weight and only 8 per cent and 4 per cent girls in alddle SES had normal (90-100) and above normal (above 100) weights respectively as compared to NCES girls. Similar findings were reported by Gopelan and Kaur (1989).

4,2,3 Comparis on of Veight/Neight of Rural Cirls
The weight/height ratio of rural girls of both SES
groups are expressed as percentage of the standard
ratio of weight/height + NCHS data to entegorise
the girls as having abnorable normal and subnormal
growth. (Ahnexure IV.)

Table & Distribution of the sample girls into various categories of growth based on their weight/height.

Percentege of weight/height ratio		Growth estegories	Percentage of girls		
			Low-middle Ber (100)	M1681e SES (100)	
Above:	100	Abriormal.	₩ i •	4	
	90-400	Normal	6	11	
Le Less	90	Subnomál	94	69	

Results in Table 8 reveals that majority of the rural girls in both SES groups had subnormal growth when essessed based on their weight/height ratio, as they were below 90 percent of standared weight/height. The reason for this could be absence of additional inputs over and above their habitual poor dietary pattern in age group 7-15 years, which subsequently make/made them to miss the physiological opportunity provided by adolescence to correct growth deficits (i.e. Second round), if continued which further may lead to "stunted growth" in these rural girls.

It is concluded that there is significant difference between the growth of NCHS girls and the present study rural girls of both the SES groups. Among the middle and low-middle SES groups, there was no difference in the increments in weight and height of rural girls. Middle SES rural girls were significantly better than their counterports in low-middle SES, with regard to percentage of standard height (NCHS). However, with regard to weight/age and weight/height they were almost similars.

4.3 Food Intake and Meal pattern

4.3.1. General meal pattern and timing of rural girls One's nutritional status depends upon the quality and quantity of food one consumes. A blanced diet is important for growth of body and maintainance of health throughout the life of an individual.

Table 9 General meal pattern and timings of the rural girls

Timings	Food Items	Per cent	of girls	*Z*	
		lov-midd SES	le middle SES	S	
		(100)	(100)		
7-8 a.m.	Breakfast		(
	Tea Milk Roti and Chutney	87 13 6	82 18 6	1.25 ^{NS} 1.25 ^{NS}	
	Rice	5	4	•	
	Bread/Biscuit	9	11	•	
10 a.m.	Lunch				
12 noon	Jawar Roti Chapati Rice	17' 83 30	11 89 <i>3</i> 5	1.50 ^{NS}	
	Dhal	82	81	•	
	Vegetable Curry	73	7 8	1.00 ^{NB}	
	Chutney/ <u>Thecha</u> / Pickle	82	63	3.80**	
	Curd	7	8	0.33 ^{Ns}	
	Milk Dhapate	9 21	16 28	1.75 ^{Na} 1.40 ^{Na}	
5-5.30 p.m.	Snacks				
	Tea Pohe	15 9	19 7	e.80 ^{Ns}	
	Chi vde	7	2	Ť	
	Upma	2	4	•	
8-9 p.m.	Dinner				
	Jower Roti Chapati Rice Dhal Vegetable curry Milk Curd	88 11 22 7 10 20 3	91 9 27 10 17 28 8	0.75 Ns 0.50 Ns 1.00 Ns 1.00 Ns 1.75 Ns 1.60 Ns	
	Thecha/ Pickle	58	40	0.83 ^{NS}	
	Khichedi	62	71	4 CM	
	Thalipith	58	63	V 02.10	
	Pithola	19	20	0.20 ^{NS}	

^{** -} P<0.01. IN Ns-non significant.

The general meal pattern of the sample fural girls is given in table 9. It is obvious from the table that majority of the girls in low-middle and middle SES groups had food. two_times _____ afternoon and night per a day. Daily at morning around 7 to 8 a.m. majority of the girls in both the groups had a cup of tea. Majority of the girls in both the groups had lunch at about 10.00 a.m. to 12.00 noon. Lunch generally comprised of 2-3 chapatt. 1/2 to 1 katori dhal. 1/2 to 1 katori vegetable curry, 1-2 katori rice and 1-2 teaspoon chutney/thecha/pickle. Dinner was generally taken by girls around 8.00 - 9.00 p.m., the meal pattern at dinner was generally 1-2 lower roties, with 1-2 ketori dhal / curry / 2-3 teaspoon chutney/ pithal or 2-3 katorl khichadi with thecha/pickle. About 15-19 percent girls in both the SES groups had tea at about 5.00-5.30 p.m. There was no difference in the meal pattern and timings of rural girls between both the SES groups except in consumption of chutney/thecha/pickle.

4.3.2 Generally Consumed Food Groups by Mural Cirls

It is evident from the table that, the commonly consumed food groups of all the rural girls in both the SES groups were cereals, pulses, green leafy and other vegetables, milk and milk products, fats and oils, fruits and miscellanious. The table also reveals that all the studies rural girls were vegetarian.

Sable 10 Generally communed food groups of the spleated gural girds.

Pool groups and Stans	Per cent of lew-middle SES (100)	girls middle SES (100)	'Z' Value			
Cesuals			•			
Rice	<u> </u>	3 5	•			
Jones	75	85	2.5000			
West	85	92	1.75 Na			
Pulses						
Redgren	55	64	1.50 Ka			
Greengrun	60	72	2.00 **			
Bengalgran	58	60	0.33 Na			
Green leafy Vegetables						
Spinesk	35	71	6.00 **			
Ferngreek leaves	50	61	1.85 Na			
Ambet Chrise	50	50	o as Na			
Sefficier leaves	62 70	65	0.16 ⁷⁸ 0.65 ^{Na}			
Bengalaren leaven		75 *-	0.83 Na			
Inchilan ;	60	65	0.85			
Other vegetables	•					
Petate	58	50	1.33 NB			
Brinjal -	52	65	2.16 *			
Tomate	60	65	0.85			
Ledies finger Reddish	50 25	60 35	1.66 *** 2.00 *			
C-CARLAGES		"	2.500			
Cabbage	28	26	0.40 Na			
Camilificuty	34	60	4.33 **			
Pumpkin/bottle gourd	55	65	1.66 Na			
Milk and Milk Produ	ects					
Hilk	85	100	1.75 Na			
Guard	10	15	1.25 Na			
Butter milk	22	28	1.20 Na			
Fats and Oils						
Safflower/groundmit edl Penika	100	100	-			
Guerra	80	80	•			
Percen	58	66	1.33 ^{NB}			
Ber '	100	100	•			
Grapes	25	35	2.00 * 0.66 Ns			
Sepots	28	32 20	0.66 Ns			
Sweet lime 'Lemon	12 25 -	20 30	1.00 Na			
Missellaneous foods	-		. 			
Sugar	100	100	•			
Jaggery Jaggery	3 8	45	1.66 Ns			
Sugarcane	45	55	1.66 Ns			

^{* -} P<0.05, **-P<0.01, Ms-non-mignificant.

Information on generally consumed food groups of the selected rural girls are illustrated in Table 40. Majority of the girls in both SES groups consumed cereals such as wheat, Jower, from pulses, greengram, redgram and block gram, among greenleafy vegetables bengalgram and safflower leaves, encetandulsa followed by fenugreck leaves, embat chucks and spinach. Tomato, followed by brinjal, ladies fingor, potato were the other vegetables mainly consumed by both the groups girls. Consumption of milk as it is observed in 13-48 per cent rural girls and in tea form by above 80 per cent girls was recorded for both the SES groups. Safflower/ groundnut oil, and sugar vere consumed by all the rural girls. In both the groups, Ber, Guava and Banana were seasonal fruits commonly consumed by the girls.

4.3.3 Privilege of Getting Required amount and liked Food Items
Table 11 Privilege of the rural gifls in getting required amount
and liked food items

Reasons	Per cent of	121		
	Low-middle SES	Middle SES	Value	
	(100)	(100)	•	
F or yes	(n-59)	(n=73)	2.33*	
Spe cial consideration of parents	18	21	0.50 ^{Ns}	
Availability of sufficient food	41	52	1.37 ^{Ns}	
For No	(n=41)	(n-27)	2.33	
M <mark>ore siblin</mark> gs Being elder siblings	21 9	13	0.88 ^{Ns} 0.40 ^{Ns}	
Discrimination being girl	14	7	0.66 ^{Ns}	

Table 11 indicates privileges of the rural girls in getting required amount and liked food items. Significantly more number of middle SES girls found to get required amount of food and liked food items as compared to their counterparts in low-middle SES group. The reasons given special consideration of parents (18 % and 21 %) and availability of sufficient amount of food at home (41% and 52%) in low-middle and middle SES groups respectively. Significantly more number of girls (41%) were deprived of sufficient amount of food and liked food items such as sweet dishes (Basundi, Kheer etc.) in low-middle SES group as compared to middle SES group. The ressons stated in both the SES groups for the same were more

number of children (siblings) in the family (13 to 21 %) followed by discrimination being a girl (7-11 %) and being elder sibling was required to sacrifice (7-9 %).

However, there was no difference in the reasons stated for the same in both the SES groups.

4.3.4 Assessment of nutritional status of Rural Ciris.
Table 42 Assessment of nutritional status of rural
girls based on their weight for ege.

Percentage of weight	Classification of nutritional status	Per cent of rural girls		'Z [†] value	
,		Low-middle SES (100)	Middle SES (100)		
Above 90	Well nourished	with:	12	.	
75-89	First degree of mainutrition	41	33	0,16 Ng	
61-74	Second degree of malnutrition	35	38	0,50 ^{NS}	
Below 60	Third degree of malnutrition	24	17	1.75 Ns	

Ns - nonsignificant

After having got data on meal pattern of rural girls it was felt necessary to study the nutritional status of rural girls based on their body weight/age to assess whether the food inputs to the selected girls were sufficient or insufficient. For this purpose

the rural girls were classified into various groups of malnutrition as per the classificatory scale of Gomez (1987).

Table 12 implied that only 12 girls in middle SES and one of the girls in low-middle SES groups were well-nourished. Forty one per cent, 35 per cent, 24 per cent girls in low-middle SES had first, second and third degree of malnutrition respectively, and the corresponding values were 35 per cent, 38 per cent and 17 per cent for middle SES group girls. '2' values indicated that there was no significant difference with respect to degree of malnutrition in both SES group.

These results are in par with findings of Gopalan (1989).

It can be concluded from the results of above tables that majority of the selected rural girls were not provided with balanced and sufficient amount of food, to exploit the "Second opportunity" which nature offers to the children to overcome deficits in growth.

Majority of the selected rural girls were vegetarian, had generally food twice in a day besides having only a cup of tea in the morning, used some of the items of all food groups except egg, meat and meat products.

4.4.1 Health problems and Care Taken of Rural girls

The health problems encountered among the rural girls are reported in Table 13. The results in the table explain that cough and cold found to be commonly and frequently faced health problems of majority of the rural girls in the age group-7-45 years in both the (SES groups which was followed by fever. In low-middle SES group girls suffered from vomitting (21%), diarrhoes (24%) and headache (25%) and the corresponding percentages for these health problems in middle SES group were 18 per cent. 216 per cent and 17 per cent. In low-middle SES group 32-45 per cent girls suffered rerely from vomitting, diarrhoea end headache, while it was 23-41 per cent in middle SES group. Among the enlisted health problems, headache was experienced significantly by more number of girls in low-middle SES group than middle SES group. It was also recorded that 32-37 per cent girls in both SES groups had cuts/ injuries and burns on their limbs due to their involvement in housework, farm work and animal care besides in play with peers.

Table 13 Health prablems encountered among the selected rural girls.

Health problems	:	eer cent of	Per cent of rural dirts			
-	Low-middle SES (100)	quently Middle SES (100)	·zi Value	Rerely Low-middle SES (400)	Widele Ses (100)	Value
Cough and Cold	2	E.	6,63,0	In.	w	•
Rever.	8	R	1,66NB	8		CNACA
Diarrhoes	杏	Ñ	0.60 81	*		
Vomiting	ក	0	S. P. P. S.	T PA	F 88	0,66Ws
Conjunctivitis)	4;	4 ,	4	ħ.	W	0.50Na
Nesdeche	10	The Part of the Pa	*00* Z	\$	n	*99.50
Abdomen palm	P.	9	のが高	N	n	0,80%

P 0.05. ** 0.01. Ne- Nen-Significant.

4,4.2 Utilization of Health Services for Aural Girls
Table 14 Modes of treatment adopted by rural parents in
treating the allments of their daughters

	Mode of treatment for allments	Por cont Low-middle SE3 (100)	of femilies Middle SES (100)	*z* Value
	ilousehold resediss	466	100	**
i	Treatment from- PHC Stoff	80	84	1.00 ^{Ns}
ũ)	Private Ayurvedic Doctors	35	48	1.77

No- Non-Significant.

for treating their daughters during allocate are mentioned in Table 14. All the families in both the SES groups try out first household remedies which is a customery practice for treating allocate of all minds of their daughters. If still not reduced, sick girls were referred to PHC staff for treatment by above SGS families in both the SES groups. Twenty five per cent and eighteen per cent families in low-middle and middle SES groups resorted private Ayurvedia

Fractitioners for seeking sedical aid when no improvement was found in girls health condition despite the use of household remedies and aliopathy treatment. There was no difference between the low-middle SES families in utilization of various sources for treating their daughters for different health problems.

4,4.3 Types of Sere Civen to the Cirls Buring Ill-heelth

The types of care given to the rural girls by their families during ill-health period are illustrated in Table 15.

Toble 15 Types of care given to the rurel girls by their Temilies during ill-health period

in 1000 1 30

Porticulars	Per cent c Low-middle SES (100)	of families Middle SES (100)	†Z† Volus
Providing Prescribed cadicine	72	65	0,26 ^{Ns}
Offering Special food	60	72	2,00
Reduction in work load	65	7 8	2.16
Providing sufficient rest	76	90	5.00 ^{4#}

^{*-}P < 0.01, **-P < 0.05, No- Non-Significant

Above 60% and 72% families in low-middle and middle
SES groups respectively gave special attention to their
daughters during sick period by giving prescribed
medicine, providing special food, such as milk and bread,

<u>Nuser. Sheera. Khichadi.</u> reducing work load such as
domestic work, farm work, unimal care work etc. and
making their daughters to rest for sufficient amount of
time. Seventy eight per cent families in low-middle
SES and 90% families in middle SES had positive
attitudes toward their daughters during ill-health period,
while the rost had negative attitudes.

It is interred from the above results (table 13,14,15) the cough end cold, fever, injuries/ cuto and burns were the commonly encountered bealth problems among rural girls. Vajority of the cural families in both the SES groups made use of customary household remedies and the facilities of Primary Health Centre for treating illness of their daughters and olds provided enough care to them.

4.5.1 A cross-checking of Bata Reported by Rural Cirls on Activity and Time Spending Patterns.

Prior to the enalysis of data collected on activity and time-spending of rural girls, comparison was made between the activities reported by the rural girls (n-40) and the resorded activities of same girls by the investigator through naturalistic observation (from down to dusk) to arrive at percentage of consensus (agreement). The results are indicated in agreement of the percentages of agreement for all activities of all the 40 girls was above 94% except 87% for one girl. The percentages of agreement indicate that the reported information of girls (respondents) on activity pattern is highly reliable and valid.

Similarly correlation was worked cut between reported time-spending pattern (respondent) and observed time-spending pattern (Investigator) of rural girls. Calculated 'r' values and calculated 't' values (annexure VI) revealed that there was no difference in the reported and recorded time-spending patterns of rural girls. Hence it is reliable.

4.5.2 Classification of Activities of Rural Girls

The collected data on activities and time-spending potterns of rural girls of low-middle and middle SES groups are given age-group wise in table 16. All the activities generally performed by the rural girls in both the groups are classified under different heads such as Personal — care, Domestic work, Sibling core, school work, Form work, Animal care, Collection of fuel or dow-dung, Play/Recreation and Sleep and Rest.

the activity and time -- spending patterns of rural girls/ 16. IABLE

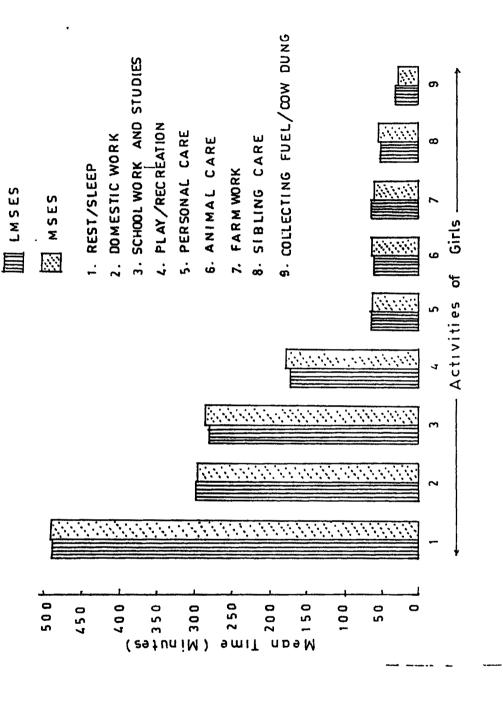
'z' / 't'	for over	tine			1.81	1.4 35	0.64 85	ν. Σ	0.61 S	0.53 NS
and the second s		Over all mean time + S.D.	63.09 ± 7.04	2%.63 ± 34.03 (100)	53.40 ± 9.48 (44)	283.15 ± 21.76 (82)	60.22 ± 8.44 (50)	61.74 ± 8.28	29.53 ± 4.27 (13)	(100) (100) (489.93 ± 24.57 (100)
	(00)	13-15 (30)	63.00 ± 6.39	315.27 ± 32.03 (30)	56.85 ± 6.25	301.68 ± 26.11 (25	60.57 ± 6.13 (7)	61.11 ± 7.23 (26)	27.33 ± 2.06 (6)	167.53 ± 33.11 (30) 477.93 ± 25.92 (30)
	Middle SES (100)	10-12 (35)	63.94 + 7.34	309.14 ± 23.28 (30)	45.38 ± 8.57 (13)	277.37 ± 13.75 (30)	55.66 ± 6.81 (18)	62.72 ± 9.28 (25)	(3)	1/8.7/ ± 40.05 (35) 491.57 ± 25.94 (35)
on activites		7-9 (35)	62.31 + 7.37	268.14 ± 25.55 (35)	56.75 ± 8.23	272.41 ± 12.14 (27)	63.40 ± 9.16 (25)	61.35 ± 8.54 (20)	4.34 4.34 4.34 4.34 3.43 3.43 3.43 3.43	177.91 ± 12.64 (35) 498.57 ± 17.47 (35)
spent	<u>ا</u> ا		8	8	\$	&	ያ	71	E	8 8
Girls age in (years) and mean time (min) spent on activites		Over all mean time ± S.D.	63.02 ± 6.51	299, 12 ± 38,41 (100)	50.23 ± 8.08 (47)	276.00 ± 37.57 (75)	61.19 ± 7.95 (81)	61.44 ± 6.87 (78)	30.29 ± 3.77	170.55 ± 33.30 (100) 488.26 ± 19.01 (100)
ge in (years) an	(100)	13-15 (30)	61.56 + 4.89	331.53 ± 27.53 (30)	60.00 ± 8.22 (5)	299.47 ± 16.93 (19)	61.95 ± 6.77 (23)	59.40 ± 8.31 (20)		166.27 ± 37.62 (30) 474.50 ± 16.57 (30)
Girls a	Low middle SES (100)	10-12 (35)	01.7 + 88.19	308.80 ± 19.35 (35)	50.72 ± 7.20	273.45 ± 13.52 (31)	57.86 ± 7.61 (29)	60.86 ± 6.65 (30)	30.73 ± 3.21 (15)	173.74 ± 37.84 166.27 ± (35) (35) (493.74 ± 15.58 474.50 ± (35) (30)
		9-7 (38)	Personal care 100 65.00 ± 6.61 61.88 ± 7.10 61.56 +	(32) (33) (33) (33) (33) (33) (33) (33)	47 47.79 ± 7.24 50.72 ± 7.20 60.00 ± (24) (18) (5)	75 261.13 ± 59.93 273.45 ± 13.52 299.47 ± (25) (31)	63.93 ± 8.18 (29)	63.39 ± 5.64 (28)	32.40 ± 5.59 (5).	100 171.03 ± 20.76 173.74 ± 37.84 166.27 ± (35) (35) (35) (35) (30) (30) (35) ± 18.34 493.74 ± 15.58 474.50 ± (35) (35)
	=	<u> </u>	81	2 8	47	75	8	78		8 8
		Activities	Personal care	Domestic work	Sibling care	School work	Farm work	Animal e care	Collection of fuel & commund	Play/recrea- tion Sleep/Rest

NS = Non- significant X (Figures in parentheses indicate number of girls performed those activityes

All the personal activities like brushing. bathing, cot day, drinking, growing etc vere considered personal care; cleaning vessels, house, grains, cocking, washing clothes, stiching/sending, marketing vegotables/ provisions, powdering arains run-errands etc vere included under deposite work; feeding, bathing, clothing, carrying and engaging siblings were classified as sibling care: School working hours, doing school related assignments, studying at home etc vers the activities under school work; sowing, wedding, hervesting, filling form yield up into bogo/bashets, were the activities included under form works under animal care. Cleaning depeated animals, giving vator/folder to them, eleaning their sholter, grazing, collection of fodder from farm ete were considered. Collecting dry branches, weed, other empicultural waste and cou dung, making cow-dung takes were covered under head collecting fuel end condume: playing. chit-chatting, visiting friends/ neighbours, watching TV, wetching idly sto included under play/recreation; Day time rap and sleep are considered under aleep and rest.

4.5.3 Analysis of Activity and Time-spending patterns of Rural Cirls (Socio-Zoonomic Status-Wise)

It is evident from the table 16 that all the girls irrespective of their age in low-middle SES group spent maximum time 299.12 ± 38.41 minutes on



COMPARISON OF ACTIVITY AND TIME SPENDING PATTERNS OF RURAL GIRLS Fig.3.

demestic work, 170,55 ± 33.50 minutes on play/
recreation, 276.00 ± 37.57 minutes on school work
by ell the school going siris (75) besides 488.26 ±
19.01 minutes on sleop/rest while minimum time of
30.29 ± 03.77 were spent on collection of fuel/
cow-dung by 27 % girls. Above 78 % girls were
engaged in sminol care and form work for about
61.44 ± 6.87 and 61.19 ± 7.95 minutes respectively.
For personal care 63.02 ± 6.51 minutes (100 %) and
50.23 ± 8.08 minutes for sibling care were incurred
by all the girls (100 %) and 47 % girls
respectively.

In middle SES group, miximum time of 296.63 ± 34.05 minutes and 283.15 ± 21.76 minutes were spent on desertic work and school work by 100 % and 82 % rural girls respectively, besides everybody spending 489.93 ± 24.57 minutes on sleep/rest. Mean time of 175.71 ± 39.21 minutes were spent on ploy/recreation by all the girls in middle SES followed by on personal care 63.09 ± 7.04 minutes (100 %), on animal care 61.74 ± 8.28 minutes (71 %), on 60.22 ± 8.64 minutes (50 %), on sibling cure 53.40 ± 9.48 (44 %) and in collection of fuel and cowdung 29.53 ± 4.27 minutes (71 %) respectively.

in the activity and time spending pattern of the rural girls belonged to low-middle and middle SES groups, when compared irrespective of their ages, however, relatively more number of girls in low-middle SES group did sessenal form work and collection of fuel and condung activities as compared to middle SES group girls. Hence, socio-economic status of the selected rural girls did not have significant impact on the activity pattern and time-spending patterns of the rural girls.

of rural girls at solected three age-groups between low-middle and middle SES groups. It reveals that in 7-9 years age group (Americe- II), in middle SES group girls spent 4 to 15 % time (minutes) more on sibling care, school work, play and recreation and collection of fuel and cow-dung, an compared to same age group girls in low-middle SES group. On the other hand in 10-12 years age group, the low-middle SES girls spent about 11 % extra time (minutes) on sibling care, and fuel and cow-dung collection and in age group 13-45 years girls spent 12 % extra time (minutes) on domestic work then their counterparts in middle SES group.

The results indicated that in low-middle SES, girls age to some extent influenced tha time-spending pattern of rural girls particularly on activities like sibling care, demestic work and fuel collection at various age levels.

Table 17. Activity and time-spending patterns of school going and non-school going rural girls.

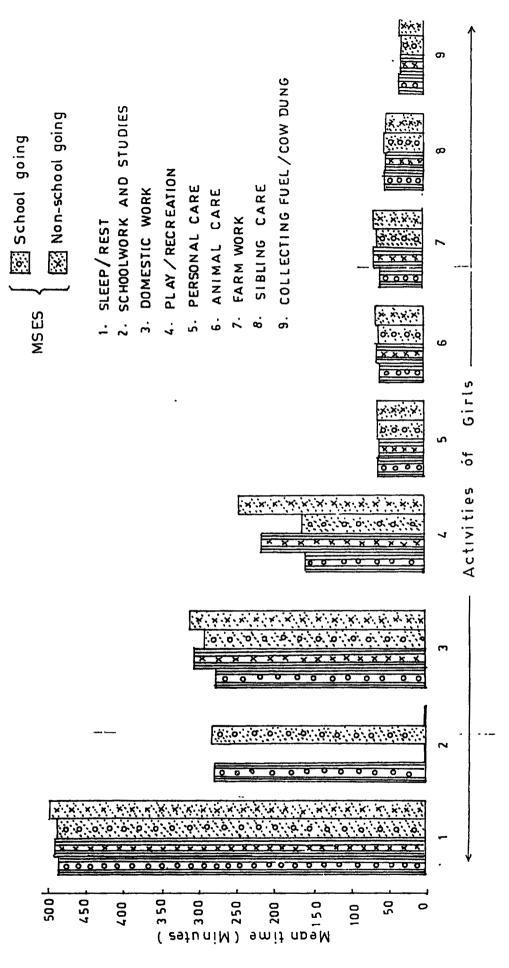
	\$		Mean time (minutes) spent by qirls	utes) sper	it by (jirls		
Activities	(100)	Law-mid Mean #	LOW-middle SES Meants	t' value	£ (30)	Middle SES - Mean 1 sp	ល	t, value
i		왕 (전	8 (3)			88 88 88	N56 (18)	
Personal care	100	62.76 ± 05.88	65. 67. 40 ± 84.59	0.19NS	100	63.24 ± 07.26 63.24 ± 07.26	62.04 ± 05.72 (18)	3N, 69, U
Domestic work	301	275.50 ± 21.12	307.57 + 88.94	5.97	8	£94.31 + £5.80	313.91 ± 44.00	# _{P9"} 2
Sibling care	47	51.27 ± 06.41	52.48 ± 94.87 (17)	0.43NS	\$	53.18 ± 08.07 (35)	51.58 ± 06.74 (Y)	0.56NS
School work	ĸ	278.08 ± 24.18		***************************************	Ä	283.82 ± 17.83		:
Farm work	81	58.48 ± 07.04	66.69 ± 65.30	5.28 **	ନ	60.93 ± 07.65	63.36 ± 05.12 (16)	1.E.N.
Animal care	'n	60.35 ± 07.01	63.16 ± 06.39	1.67NS	61	60.87 ± 08.42	05.70 ± 45.83	1.25
Collection of	۵/	32.05 + 03.14	29.16 ± 02.62	#/.h.u	13	27,83 ± 02,27	31.05 ± 02.67	r, 27, 4
Flay/recreation	81	158.40 + 11.59	215.40 ± 18.47 (25)	18.53	100	161.73 ± 12.12 (82)	246.21 ± 26.96 (18)	****:
Sleep/Rest	100	485.22 ± 14.80 (73)	488.64 ± 15.39 (25)	0.32 NG NG NG	31	488.08 ± 22.48 (82)	475.53 ± 12.80 (18)	1. \$

 \S Figures in parentheses indicate number of girls performed those activity $\mathcal{E}_{>}$ 1 0.0° NS = Non-significant * 56 = School going * * NSG Non School going = School goina

4.5.4 Analysis of Activity and Plac-Spending Patterns of Rural Girls (School-Envollment wise)

The activity and time-spending petterns of school-going and hon-school going rural girls of both the SES groups are described in table 17. It is evident from the table that in los-middle SES groups, non-school going girls apent significantly more time on describe work, collection of fuel and cos-dung and on play/recreation by non-school going rural girls. These results are in line with the findings of Eurra (1989), Remana (1990) and Subromaniam (1991). The results Conclude that school-enrollment has dignificant impact on time-spending pottern of rural girls.

It is inferred from the above findings (Table 16, 17) that the activity and time-spending patterns or selected rural girls found to be some irrespective of the SES of families. The rural girls found to be angaged in domestic work (4-5 hours), school work (4-5 hours) by only school going girls, play and recreation (2-3 hours), animal care(about 1 hour), farm work (about 1 hour), collection of fuel and com-dung (about 12 hour) besides routine activities of personal care, (1 hour) sleep and rest (about 8 hours). As majority of the selected rural girls belonged to the nuclear type families they were forced to assist their parents in domestic work



Non-school going

School going

LMSES

AND COMPARISON OF ACTIVITY AND TIME SPENDING PATTERNS OF SCHOOL GOING RURAL GIRLS NON-SCHOOL, GOING Fig 4.

finites they were also involved in seasonal form work, unimal care and collection of fuel/cow-dung. The social-economic status of the selected rural girls had no influence on the activity and time-spending patterns of rural girls. On the other hand school enrollment of rural girls had significent impact on the same when scapared the activity and time-spending patterns of school going girls with that of non-school going girls.

- 4.5 Investments and Efforto Rade by Rural Parents in Educating Their Doughters.
- 4.6.1 School Enrollment and Educational Flacements of Cirls.

the celepted rural girls in both the SES Groups were distributed into sub-groups on the basis of their age, school enrollment and educational placement.

(Table 18).

A. School enrollment	enrol1	ment						},	;
Curts age (years)	22	Girls(%) enrolled Low-middle Mids SES (100)	8 6	In achool	velue Velue	Carls (%) Never enro Low-middle SES (100)	(%) Nottenrolled enrolled ddle Maddle Lor ddle Maddle Lor (100) (100)	relied in School D School D SES (100)	or Dropout Middle SES (100)
62	R	74.42	41.474		4.00 We	86.88	22,86		•
40-12	n	68.57	63.7	·	0.73 No	44.43	*	4	45.00
13-15	8	63.33	83,33	·	4.00	23.33	\$ '8	13,33	8.34
Total	90	75.00	82.00	-	S. C.				

			,			
		derd	MAGGLE SES (100)		*	400
		7-9 Standard	Low-middle SES (100)			400
		of girls Standard	le Middle SES (400)	4.	6	净 -
	s in school.	Gent 4-6	Low-middle SES (100)	*	100	1
signitican	t of girls		Middle SES (100)	100	*	4
WS- WOD-	1 Placement		Low-middle Middle Lo SES SES SES (100)	400		
THE CO.O. NO. NON-SIGNIFICANT	B) Educational Placement of girl	stria ago-	(Near to	67	10+12	44-15

Table 10 deplots that in low-middle SES group in the age ranges 7 9 years, 10-12 years, 13-15 years, 71.42 per cent, 85.57 per cent and 63.33 per cent girls respectatively were empolled in sobool, and attended the school though not regularly, while rest were never enrolled in school and school-dropowts. The corresponding figures for school enrollednt of girls in middle SES group were 77.14 %, 85.71 % and 95.33 Per ant 10 Per ant 10 Per cent were enrolled in school as compared to the girls in middle SES were enrolled in school as compared to the girls in middle SES group. Regarding the educational placement of acheol enrolled girls, in both the SES groups ell were in 1-3 standard, 4-6 standard and 7-9 standard at the age of 7-9 years, 10-12 years and 13-15 years respectively.

4.6.2 Reasons Reported by Rural Parents for Enrolling and Not Enrolling their Boughter in school.

The reasons reported by the simple parents for enrolling and not enrolling in school and dropping out their daughters from school are explained in table 19

Table 19 Reasons reported by Rural parents for Enrolling and not-enrolling their daughters in school

Rea	BORE	Per cont o	l parents	*2*
		Low-siddle SES (100)	Findie 353 (100)	Value
A	for enrolling	n = 75	n = 82	
	To make dought			2 5
	in 3 R's	66.66	91.46	1,25 ^{No}
	To make daught	i de la companya della companya della companya de la companya della companya dell		
	leed a better			W.
•	1170	93.33	97.56	1.33 ^{NS}
	Realisation ti	-		
	education is a	9		
	basto need	66.66	57. 80	4.20 *
	Con get a goo			
	motch	86.65	67.80	***
3.	For not-enrol	ing n = S	a = 18	
	No value for	urle.	and the second	
	education	92,00	66,66	2.16*
	Weste of time		ad	
	and money	80.00	55.55	1.79 N
	Baby sitting	64.00	33.34	14,46**

^{*} P < 0.01. ** P < 0.05. No-non-aignificant

out of 75 per cent
and 82 per cent parents in low-middle and middle SES
groups who empolled their caughters in school for
aducating them stated that once their daughters was
educated they might lead a better life as they
become smorter and serings their homes better (95.35 %
and 97.51 %) followed by they become deli-sufficient
in reading, writing and arithmetics (5 % a) unlike
them (95.66 % and 97.46 %). It improves the chance
of getting a good prospective husband to them
(85.66 % and 87.60 %) and the realisation that
education is a banko need even for girls (65.66 %
and 87.80 %) respectively.

On the other hand 80-92 per cent parents in lowmiddle SES group and 55.67 per cent parents in middle
SES group reported that they had not enrolled their
doughters in school/discontinued their education as
they so not hold value for girls education, it is
meare waste of time and money, at least being at home
they can learn demestic and other work which fetches
then a lot in suture. About 64 per cent parents in
low-middle SES and about half of 1t, parents in middle
SES reported that they didn't envoll in school/
discontinued their daughters education as they were
required to beby sit to their younger statings.

Similar trend of results were reported in the study of Hati (1992) that girls are neglected a lot in the field of education. While Kulkarni (1991) found in his study, the reasons for not enrolling and dropping out were, girls were required to help at home, poverty and inability to offord education and parent's lack of interest in education.

4.6.3 Investments and .: Ifforts Made by Rural Parents for Educating Their Daughters

Table 20 Investments and efforts made by rural parents for educating their daughters

	يدر مدر زير دو بين بين ۳۰ که <u>دو خو س</u> و ۲۰ س بين بين بيد ده بين وي پيد ^{ده} ميد			121
	vestments d Efforts	Low-middle SES (75)	t of parents Middle SES (82)	Value
a)	Money incurred on purchase of educational materials/year			
	Rs. 150-250	9.33	7.31	0.40 ^{Ns}
	Rs. 250-350	61.33	31.70	4.29**
	Rs. 350-450	29.33	60.97	4.42**
b)	Supervision of studies	73 • 33	91.46	3.60**
c)	Assisting in studies	29.33	35.36	1.00 ^{Ns}
d)	Providing enough time for studies	100.00	, 100•00	_
e)	Helping in daughters work in order to send to school in time	30.00	53 • 65 .	- 3•28 ^{**}
f)	Provision of essential materials			
	Note Books	100.00	100.00	-
	Text Books	80.00	80.55	-
	Pen/pencil	100.00	100.00	-
	Good clothing	100.00	100.00	
	Uniform	66.66	78.04	2.00
	Protecting material fron rain	46.66	97•56	10.20**
;)	Provision of essential materials in time and solving school related problems in time	78 . 66	87.80	1.80 ^{Ns}
	ت اللمت	10.00	07.00	1.00
1)	Valueing and encouraging studies	74•00	98.00	6.00**

^{* -} P 0.05, ** - P 0.01, Ns-Non-significant

Table 20 indicated the investments and efforts node by reral parents for administra thair daughters. As seen from the table rural parents had incurred einisum of Re. 450/annua and existe of Re. 450/annua exclusively on purchasing of educational materials (text books and other stationary) and no money incurred on tution fee es in schools, education was given at free of quat-Rosever, significantly more number of parents in losmiddle SES incurred Rs. 250-350 and in middle SES group 1t was Re. 350-450. About 73.33 per cent and 91.46. per cent parents in low-middle and middle SES groups respectively code efforts to succryise their caushters studies by viciting their school now and then, and enculring from classteachers about their performance and steps to be taken for improvement. About 29.35 per cent payents in both 335 grows provided esclatance to their counters by requesting teachers/educated persons in neighbourhood to help them out in studies as they could not help due to their illiterapy and Low-literacy level and business. All the parents in both SES aroung provided enough time for studies to their school-raing daughters (2-3 hours in a day). Thirty per cent and 54 per cent parents, specially mothers in low-middle and middle SES groups respectively

were keen about daughter's education and hence beloed in their daughter's work to accomplish early in order to send them to school in time.

Regarding provision of essential materials to school-going girls, in both the SES groups all the perents tried their best to provide good clothing, note books, pen, while provision of text books to girls was about 80 per cent.

Majority of the parents in middle SES group and 46 per cent parents in low-middle SES group provided protective materials such as plastic coated jute bags, polythene bags and portable small umbrelia to their school-going daughters in rainy season in order to send them to school regularly. However, essential materials were supplied to the girls in time by 78-88 per cent parents in both the SES groups. Education to girls was valued by 74 per cent low-middle SES and 98 per cent middle SES rural parents and these parents encouraged their daughters to study atleast upto 10th class as such facility is available to them in their respective villages.

f2[†] test reveals that significantly more number of rural parents in middle SES group made more investments and efforts on certain aspects related to educating their daughters as compared to parents of low-middle SES.

It is inferred from the above results (table 18. 19. 20) that there was no difference in school annollment of girls belonging to the age groups 7-9 years, and 10-12 years in the both SES groups while 13-15 years significantly more number of girls - in middle SES were enrolled as compared to low-middle SES girls. Significantly more number of middle SES group parents made more investments and efforts in educating their daughters as compared to low-middle SES group. The reasons common for majority of the girls for not going to school regularly were their ill-health, festivals, marriages of family members/ relatives and arrival of relatives to home. The main reasons reported by parents for empoliment of girls in school were that they become smarter and manage their home better once educated, become selfsufficient in 3 R's and increase the chance of getting a good husband and reasons for not-enrolling girls in school. The main reasons for not enrollment were no value for education, waste of time end money as they don't acquire skills of practical importance and sibling care.

4.6.4 Reasons Reported For Not Going To School.
Regularly by the Respondents

Table 21 Recoons stated for not-going to school regularly by the respondents

		Low-inidelia SES				Middle	ës:		YZ.
	FB	500 S	£6.	Total (75)	20	250 250 250 250 250 250 250 250 250 250	TO	10to (82)	
Se asona 1 farmvork	00.04	41.93	26.34	BR	40.74	65.43	26.00	40.34	300
Baby skitting	68° 00	12,90	05.26	95,50	65:70	00.0	.1	0.67	69
ill health	400.00	160,6	8.8	100,00	200	400,00	100,00	100.00	*
Pestivels	400.00	400,00	100,000	100,000	100,00	100.00	100:00	100:00	
Marriagos	100,00	400.00	100:00	100.00	200,00	400.00	100,00	400.00	*
Arrayal of relatives	88.00	8	100,00	025	80.00	n n	8	67.07	\$8

*** P < 0.01 * Nar Non-Signationnt.

Reasons reported by the respondent for not going to school regularly are given in table 21. It is obvious from the table that in both the SES groups all the girls did not go to school whenever they were sick, on festivel days and on the days of their family members/relatives marriages. Arrival of relatives to their homes was a reason to the girls for not going to school in 92.59 per cent and 67.07 per cent families of low-middle and middle SES groups respectively. While seasonal farm work was a reason to 37-40 per cent girls in both the SES groups could not go to school regularly as they were required to baby sit to their younger siblings now and then, due to their mother's work. Overall there was not much difference in the reasons stated for not attending school, age range wise of girls in both the SES groups.

4.7 Perental Attitudes Towards Their Caughters
Table 22 Attitudes of rural parents towards their daughters

****	Per cent o	f parents	*2*
Attitudes	low-middle (SES (100)	middle SES (109)	value
Positive	(88)	(79)	
Essy to bring up	23 `	18	1.25 ^{Na}
Reciprocate well love and affection	27	17	2.50**
Gets feme to femily	38	44	1.00 ^{Ns}
Negative .	(165)	(165)	, , ,
Expensive child	100	100	. **
Bringing up daug- hter is mere waste	65 ["]	69	·

^{** -} P<0.05. Ns-Non-significant

4.7.1 Attitudes of Rural Farent's Towards Their Daughters

Attitudes of perents towards their daughters are indicated in table 22. Relatively majority of parents expressed negative attitudes towards their daughter in both the SES groups than the positive attitudes. All the parents in both the SES groups expressed that daughters are expensive as they need to give good emount of dowry for getting them married to settle their lives despite of investing a lot in bringing them up. Similar attitude was quoted in girl child; Need for integrated view. NIPCCD (1988). Sixty five to sixty nine per cent parents reported that bringing up a girl is a mere waste as she is a temporary guest in the family, and customarily she serves only for husband's family after marriage and does not shoulder her parenthome responsibilities. However, on the other hand in lowmiddle SES group 23 per cent. 27 per cent and 38 per cent parents respectively stated that bringing up girls is a easy task, daughters reciprocate well love and affection and get fame to maramily by serving at husband's home. The corresponding percentages in middle SES group were 44 per cent. 17 per cent and 18 per cent. It was interesting to note that as compared to middle SES group significantly more number of low-middle SES group parents expressed positive attitude that daughters reciprocate love and affection well. Socio-economic status of parents of the selected girls found to have no influence on the parental attitudes towards their daughter in rural area.

4.7.2 Expectations From Daughters of Rural Parents
Table 23 Expectations from daughters of rural parents

Parameters	Per cent o	f Perents	121	
	low-middle SES (100)	middle SES (100)	value	
Qualities apprecia	ed.			
Loving and Affectionate	100	98		
Sacrificing	58	78	3.75	
Generous	67	· 73	1,00 ^{Na}	
Social and extrovert	71	74	0.50 ^{Ns}	
Religious	99 -	95	2,00	
Obedient	86	81	1.00 ^{Ns}	
Mind and do own work well	.95	. 97	1.00 ^{Ns}	
Hove good Company	63	68	0,83 ^{Ns}	
Expectation from da	uchters			
Jood at house work	100	100	1	
Rood at child-care	100	100		
lood at studies	67	77	1,66 ^{NS}	
ialk less with others	28		e Ns	
o all work well	65	63	0.33 ^{NS}	

^{**} P < 0.05, * P < 0.01, Ns-Non-significant.

Table 23 described about the expectations from daughters of rural parents. Overall, there was no significant difference in the expectations of rural parents from their daughters. The qualities

appropriated of girls in both the SES groups were lowing and affectionate (98-100%) followed by being religious minded (95-99%), do work well (95-97%), obsdient (81-86%), by social and extrovert (74-74%), generous (67-73%), be in good company and sacrificing (58-78%), However, significantly more number of parents in middle SES group desired their daughter to have sacrificing nature as compare low-middle SES group.

Regarding expectations from daughters all the parents (100 %) in both the groups wanted their daughters to be good at house work and child care while 67 per cent and 77 per cent parents in low-middle SES and middle SES groups expected daughters to do well in studies, 65 per cent and 63 per cent expected girls should do all work well, and 28 per cent, and 35 per cent wanted them to talk less with others respectively.

Further it was also recorded that in low-middle SES group majority of the (above 90 %) perents wanted to perform their daughter's marriage at age ranges 15-16 and 18-19 years, where as in middle SES group parents wanted it between 18 and 22 years age by giving them to prespective grooms who have sound family background and good amount of properity and economical independent.

From analysis of 'Z' test it can be concluded that no significant difference was found in the expectations from daughters of rural parents in both the SES groups. Some of these finding are similar to conclusions made in the study of Majumdar (1990).

All the rural parents in both SES afoups wanted their daughters to be good housewives in future and none of them expressed that daughters should take up some or other employment in future.

SUMMARY

CHAPTER 5

SUMMARY

An attempt was made to study " A profile of Rural Girls of Parbhani District " of Marathwada region with the following objectives :

- To collect data on growth of rural girls in Parbhani District in order to investigate their growth pattern and to compare it with NCHS (National Centre for Health Statistics) standards.
- 2. To study the general meal pattern of rural girls.
- 3. To find out the general health problems and care taken of rural girls.
- 4. To analyse activity and time-spending patterns of rural girls.
- 5. To study the investments and efforts made by rural parents in educating their daughters and rural parents attitudes towards their daughters.

A stratified random sample of 200 families having a daughter in the age-range of 7 to 15 years were selected from randomly chosen ten villages, each two villages from randomly chosen five talukas of Parbhani District of Marathwada region. Out of 200 rural girls, 100 belonged to low-middle SES strata, while the remaining to middle SES strata. The data were collected from the selected girls and their parents by implementing survey through personal interview method by investigator on the basis on finalised structured schedule; by naturalistic observation of 20 per cent of sample girls (40) from dawn to dusk and by following standard procedures for taking enthropometric measurements (weight and height)

in their homes. The collected date were pooled, analysed statistically, tabulated and discussed under the following heads.

General Information of Parents of Rural Cirls.

It is evident from the study that in both the socio-economic status groups majority of the parents were cultivators and were in the age group of 30 to 40 years. Majority of the mothers in both the groups were illiterate while majority of fethers had education between primary and highschool level. Seventy four per cent parents in both the groups had nuclear type femilies. In low-middle SES majority of the parents had annual income of Rg. 25,000 to 35,000. On the other hand in middle SES it was Rs. 40,000 to 50,000.

Mean ages and Distribution of Ciris.

It was found that in low-middle SES the girls lowest mean age was 15.2 years, while in middle SES group the corresponding mean ages were 7.4 years and 15.3 years respectively. Distribution of girls for each mean age across 7-15 years was ranged from 5 to 16 in both the groups.

Growth Pettern of Rural Girls and its comparision with NCHS Data.

Regarding height of rural girls, it was found that the mean height (Cm) of girls was 109.93 ± 6.70 at 7 + and 156.25 ± 3.94 at age 15 + in low-middle SES group and the corresponding mean heights in middle SES group were 114.50 ± 6.50 and 154.50 ± 4.20 respectively. No significant difference was found between the mean heights of the rural girls belonging to both the SES groups. Regarding weight at the age 7 + years rural girls had meen weight (Kg) 17.42 ± 1.46 and at the age 15 years it was 42.75 ± 3.77 the corresponding mean veights in middle SESegroup were 18.17 ± 3.38 and 40.75 ± 1.53 respectively. Though the rural girls in middle SES group observed to have relatively better heights and weights compared to low-middle SES group statistically the difference was not significant. In comparision with NOIS standards rural girls in both the SES groups found to have significantly shorter stature and less body weights. In low-middle and middle SES groups 49 per cent and 64 per cent rural girls belonged to the classification of normal height-NCHS, while 88 per cent girls in middle SES and ell the girls in low-middle SES were categoriesed as having got subnormal growth based on their percentages of

parcentages of standard weight/height, all the rural girls belong to subnormal growth category irrespective of their SES. This might be due to their habitual poor dietary pattern in the age-group of 7 to 15 years which subsequently might have deprived them of the "Second opportunity" which nature offers to the children to overcome deficits in growth during puberty and adolescence with additional inputs over and above their habitual dietary pattern.

General Meal Pattern of Rural Cirls.

and meat products. It also noted that mejority of the strict were not provided with besides only a cup of the which was invertably taken in morning hours.

Majority of the girls in lunch had 2-3 chapaties,

1-2 ketories rice, half to one teaspoon of theche/
chutney were generally taken. In dinner, 1-2

Jowar roti along with one teaspoon theche/pickle/
pitie/ left over dhal and curry of else 2-3 ketories
khichedi with 1-2 teaspoon pickle/thecha were

consumed. It was also noted that all the selected

rural girls were strictly vegetarians hence consumed

some of the items under all food groups except meat

and meat products. It also noted that mejority of

the selected girls were not provided with balanced

and sufficient amount of food. None of the girls in in middle SES low-middle SES and only 12 per cent girls found to be well-nourished. When classified into various groups of malnutrition based on their percentages of standard weight (NCHS) as per the classificatory scale of Genez (1987).

Health problems and Care Taken of Rural Ciris.

It is noted from the study that cough and cold, fever, injuries/cuts and burns were commonly encountered bealth problems among selected rural girls. Majority of the rural families in both the SES groups made use of customery household remedies and facilities of primary health centres for trating ailments of their daughters and also provided enough care to them.

Analysis of Activity and Time-Spanding Patterns .
of Rural Cirls.

The findings of the study revealed that activity and time-spending patterns of rural girls were similar in both the SES groups. The rural girls recorded to be engaged in commette work (4.90 to 4.95 hours) school work (4.60 to 4.71 hours) play and recreation (2.83 to 2.91 hours), farm work (7.61 to 7.0 hours) collection of fuel and cowedung (About half an hour) besides routine activities of personal care (1.05 to 1.06 hours) sleep and rest (8.10 to 8.15 hours).

As majority of the selected rural girls belonged to the nuclear type family they were forced to assist their parents in domestic work, siblinguare and being belonged to small and assistant farmers they were also involved to seasonal farm work, animal care, and collection of fuel and cow-dung. Socio-economic status of the selected g rural girls had no influence on the activity and time-spending patterns of rural girls had significient impact on the same when compared the activity and time-spending patterns of schoo- going girls with that of non-school-going girls.

Investments and Efforts made by Rural Parents in Educating their Daughters and Rural Parents Towards Their Daughters.

The findings of the study reveal that there was no difference in the school enrollment of the girls belonging to the age-groups 7-9 years and 10-12 years in both the SES groups , while in the age group 13-15 years significantly more number of girls in middle SES group were enrolled in schools as compared to their conterparts in low-middle SES group. Significantly (P<0,C1) more number of middle SES group parents made more investments and efforts in educating their daughters as compared to the parents in low-middle SES group.

The main reasons reported by parents for educating their daughters were, they become smarter and manage their homes well, become self-sufficient in 3 R's once education is given to them

and the reasons given by parents for not enrolling their daughters in school were no value for eduction, waste of time and money as they do not acquire skills of practical importance and responsibility of baby sitting.

Irrespective of the Sector-economic Status, all the rural parents found to have negative attitudes towards their daughters as they are required to pay good amount of downy at the time of daughters marriage, despite spending a tot in bringing them up and above 65 per cent stated that they do not have positive attitude towards daughters because daughters customarily do not shoulder the responsibility of parent home. However, 38 to 44 per cent parents in both the SES had positive attitudes towards daughters as they are easy to bring up, reciprocatively love and affection and get fame to them by serving to other homes (husband and in-laws)

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ANNEXURE -I

SURVEY SCHEDULE TO KNOW ABOUT THE PROFILE OF RURAL GIRLS OF PAREHANI DISTRICT.

GENERAL INFORMATION

News of the respondent

Address

Age

Ordinal position

Type of Family + Nuclear /Extended/Joint

Size of Family & Small/middle/large

(1-3) (3-6) (6 & above)

Height of girl ?

Veight of girl 4

Onset of menarche:

Details about family \$

Sr.No. Family member Age Gender Education Occupation Income patien annum

Details of meel pattern of the subject

Day before Vesterday Yesterday Generally
Details Quantity Details Quantity Details

Morning

Afternoon

Evening

Might

What all ere your generally consumed foods ?

1) Cercels

often sometime Rarely

Rice

Jover

Wheat

Bejra

Any other

2) Pulses

Redgram

Greengram

Bengalgran

Blackgram

Anyother

3) Green leafy Vegetables

Palak

Methi

Chuka

Ambadi

Herbero

Koradi

Tendulea.

any other

4) Other vegetebles

Potato

Brinjal

Ledies finger

Reddish

Cabbage

Caullflower

Dodhi

Myother

5) Milk & Milk product

Milk

Curd

Buttermilk

Anyother

- 6) Pats & Clis
- 7) Any other (State please)
- 8) Seasonal fruits

Guava

Sugarcene

Banana

Ber

Any other

Do you get the sufficient amount of food?

If yes, when all? Morning, Afternoon, Evening, Night.

If note thy?

Do you get the privilege of having food which you

like most in the menu ?

If yes, reasons ?

When do you have your meals?

Timings Alongwith with Only with Alone Alone & family siblings Temele before last members

Morning

Afternoon

Evening

Might

Who usually serves you the food ?

Do you feel any difference is made between you and your sister.

You and your brother in the provision of food? What are those foods ?

If yes, Why?

If No. Why?

Who all were immunized in your family ? Yes/No

Sons

Daughters

If yes what all ?

Police DPT, Measles, Typhoid, ECG, Cholera

How often do you fall sick ?

Sometime/Rerely/Alveys/ in a Week/ Honth/Year.

From which infections you generally suffer from?

Who generally attends on you during stokness?
What does your family do in treating your stokness?
Refer to 1 Alonathy Doctor

Ayurvedic Doctor

Homospathic Doctor

Priest

Visit to temples

Use household remedies

Do you follow strictly the prescriptions of the above referred people? you/Strictly/ Sometimes/Never What all they did ?

Responses of your family towards you in sickness?

Positive Details Regetive details

What type of special care did you receive during Sickness?

Food

. - --

Workload

Medicine

Specify if other

Give the details of work what all you do from down to dusk and time spent on them.

Household work

Often Some times Rerely Yes/No Time Yes/No Time

Removing beds

Sweeping

Sprinking of cowdung water in yard

Vashing utensils/ cloths

Slapping floor with condung.

Putting Rengoli

Cleaning Chulha

Cutting vegetables

Keeping fuel for Chulha

Pre-preparation for cooking (what all)

Assistant in cooking

Cooking (what all)

Packing food

Serving food

Removing plates and Cleaning place

Cleaning utensils

Throwing garbage in compose pit

Fetching and filling water (Well/handpump)

Cleening water utenails
Selling farm products
(Specify)

Milk

Vegetables

Pruits

Cerrying food to form

Cleaning lamps

Stitching clothes

Mending clothes

Cattle work

Domestic enimals & Birds management

Cleaning place of enigel

Removing Dung

Preparing dung takes

Milking

Civing folder/grains

civing water to cattles/ others

Grazing enimals

Taking animal for washing (Distance)

Well

Pond

River

Child care

Bething

Clothing

Feeding

Playing (Indoor)

Flaving (Outdoor)

Toilet training

Teking to School

Bringing back from school

Making child to gleap

Anything else

Beenowlo Activities

Fetching Fuel

Collecting dung from roadside/farm

Do you do any work apart from your own household If yes What all you do ? and where ?

Perticulars

Seasonal/Non- Relatives/Non-Seasonal

relatives

Kind/Gash

Washing plothes

Cooking

Sweeping

Fotching vater

Beby sitting

Bringing materials

from market

Ferm work (details)

Cattle work (details)

Anything else

Acodemic Activities/study at homes

Play/Regrestion

Sleep/Rest

Personal needs (Details) & Care

Personal needs

Personal care

Education

What are your school timings

Do you go to School ?

If yes in which standard ? What do you want to be ?

Do you go to School regularly ?

If no why ? When all

Seasonal work

Baby sitting

Timings of School

Sickness.

Festival

Friends not going .

Delivery of mother

Morriage

Cuest arrived in family

Unoveilability of educational materials

Distance of School

Chthangs not proper

Footware

Anyother

Are you provided with all necessary aducational materials?

Note books

Text books

Dog

Pen/pencil

Uniform

Good Clothing

Pootvere-

Transport facility

Protecting material.

from rain/hot sun

Anyother

Who brought them for you?

Do you get enough time for your studies ?

If no vhy?

If yes, when ?

The all assist you in studies ?

Does your family values your education ? If yes How ?

Helping you in your work

Asking about studies

Enquiring in achool

Sending to neighbour's place to study.

Inspiring to go for higher studies

Sending to tutions

Solving school related problem immediately

Helping in seeding to school in time your work for freeing you.

Whether you attended any angenwadi/Balwadi before

Did that education motivated you for primary education.

Percentage of marks obtained in various exams.

PARENTS :

Per year how much money is incurred on your daugher's studies ?

Who spends it

Howmany

Own parents

Grand parents

Anyother relatives

Aid from school

Any body else ?

What do you want your daughter to be?

Till which stendard you went to educate her ?

Who influenced you to send your daugher to school and to go for higher education ? Detail:

What do you think of the educational system ?

that do you think of her class teachers ?

What do you think of school facilities?

Whether school demends unofficial fee ?

Why did not you send your daughter to school ?

Poverty

No value for education

Distance

No female teacher

Baby sitting work

Unauitable school timings

No angenwedl/Helwedl to cere younger elblings

Parental Attitudes

How many children do you have T

How many daughters and sons ?

are you gathered with them? If yes why if no, why apacity?

Thomdo you like more sons or daughters ? Why ?

Do you feel both sons and daughter require same amount and quality of Bood ?

Do you pay attention to your daughters and sons health If yes how? If no, why?

What all essential things you want your daughter to be perfect in ?

What all

Why

Cooking

Cleaning

Looking after children

Household activities

What are the qualities you want your daughter to have ? and why ?

Cooperative

Friendly

Subalesive

Obedient

Dependent.

Remain in house

Independent

Religious

Sacritying

mind only household work

Understanding

Perticipate in decision making

Social

Non-participate in decision

making

Affectionate

Introvert

Extrovert

Bread minded

Kind-heartend

Anything else?

Then do you like to perform your daughters marriage ?

At what age

Type of marriage

What type of groom : Age

SES

Education

Would you like to consider your daughters opinion in finilizing her marrage ?

Whom do you think that they keep family name daughter/Sons Why ?

Whom do you feel easy to bring up daughters/sons ? Which one you feel expensive child ?

then do you feel that your responsibility towards girl is over?

How do you distribute the work load emong your children ? (When son is there in the family)

Do you give similar degree of freedom to both sons and daughters If yes, why? If no, why?

Please state reasons for educating your daughter.

Thy do you want to have daugher/s.

Explain rescons

thy don't you like to have daughter/s.

State reasons.

Now do you want to perform your daughter's marriage ? and with whom ? (this year)

Do you have downy system ?

If yes what form you need to give

DOWLY

Gold (how much)

Cash (range)

Meterials (detail)

Parm etc.

SOCIO-ECONOMIC STATUS SCALE (RURAL)

Form for investigator

Developed by Tridedi and Parask Total Score

Cotegory

Respondent		Willege
Age	Deta	Investigator

INSTRUCTIONS

Please read the instructions in the manual carefully before checking on this form. Check the relevant categories by putting an 'x' in the appropriate circle on the left of a sub-item. Note that only one box is to be checkedunder each of the major items 1,2,3,4,5,6 and 7. Engircle the corresponding scores given against the sub-item. Check for sub-items under items 8 and 9. Engircle the corresponding scores. Add all scores and enter the total scores in the box on the right hand top corner. Consult the manual and enter the corresponding category in the same box.

*	Coste 1	•
••,	O Schedule Caste	• • • • •
•	0 Lover casts	2
	O Artisan caste	***3
	O Agricultural caste	***
	O Prestage caste	•••5
	O Dominant caste	***6
24	Occupation .	
	O Labour	***
	O Caste occupation	9:4·2
	O Business	£**3

	·	
0	Independent Profession	***
0	Cultivation	***5
0	Sorviće	****
À. VÁ	ication 1	
) # Park		
0	Illit erate	****
0	Can read only	iii.
0	Con read and write	****
Ø	Princey	***3
0	Middle	4.4
Ø	High School	***5
0	Graduate	
4.50	del perticipation :	•
0	Member of one organization	
0	Member of more than one organisation	***2
0	Office holder	***3
0	Wider public leader	**.6
5 La	ia e	•
Ò	No land	***0
Ō	Lago than 1 ears	
9	1-5 sores	***2
0	5-10 sores	****
0	10-15 acres	***
0	15-20 sores	***5
O	More then 20 acres	****6
6.Hou	ee £	,
O'	No home	***0
0	Hut	***
0	Katcha house	2
O	Mixed house	3
0	Fucça house	***A
0	Manadon	+446

7. Farm power 4 No drought animal ...0 ***2 1.2 drought animals Ø 3-4 drought enimals or 4 or more prestige animal Ø *** 5-6 drought animal or O. Tractor ...6 8. Neterial possession : Bullock-cart Ó Cycle Ô *** 0 Radio *** Chairs 0 **** Improved Agricultural implements 9. Pamily : 4.44 Type Single 0 Joint 3120 Upto 5 Above 52 Distinctive features . ***2

ANNEXURE II Check-List for Noturalistic Observation

Neme of the girl : Address of the girl :

Age of the girl :

Dete of the observation : Neme of the observer :

Duration of observation = 6.30 a.m. to 6.30 p.m.

Prequency and Time required

A) Personal care and Needs

1. Brushing

Activities

- 2. Bothing
- 3. Clothing
- 45 Grooming
- 5. Having tea
- 6. Having breakfast
- 7. Having lunch
- 8. Having snacks
- 9. Having dinner
 Anything else observed

B) Domestic work

- 1. Sweeping
- 2. Sprinkling of cowdung water
- 3. Putting rengoli
- 4. Weshing utensils
- 5. Vashing clothes
- 6. Petching and filling water

- 7. Cleaning the house
- 8. Cleaning Chulha
- 9. Slapping floor with cowdung
- 100 Assistance in cooking
- The Cooking
- 12. Making beds
- 13. Removing bods
- 14. Mending/Stitching olethes
- 15. Folding clothes
- 16. Serving food
- 47. Removing plates and Cleaning Place
- 18. Cleaning grains
- 19. Milling grains
- 20. Shopping Vegetables
- 21. Shopping provisions
- 22. Run-errands

Anything else observed

c) Sibling/child care

- t. Bething sibling
- 2. Clothing sibling
- 3. Grooming sibling
- 4. Feeding sibling
- 5. Playing with sibling (Indoor)

6.	Playing	with	oibling	(Outdoor)
----	---------	------	---------	----------	---

- 7. Taking younger sibling to mother
- 8. Bringing back
- 9. Teking to school
- 10. Bringing book from school
- 11. Carrying child to neighbourhood
- 12. Toilet training
- 13. Putting to aleep

Anything else observed

D) School work

- 1. Attending school (4 hrs)
- 2. Time for going to school and coming back from school
- 3. Doing school related work
- 4. Going to neighbourer for studying
- 5. Group studying
- 6. Discussing with friends, school related work
- 7. Discussing with neighbourts school related work

Anything else observed

- E) Animal care
- 1. Cleening entirel shed
- 2. Removing dung
- 3. Giving weter to enimal
- 4. Giving folder to animal

- 5. Washing animals
- 6. Milking
- 7. Grazing
- 8. Collection of fodder from form or neighbourhood

Anything else observed.

- F) Form work
- te Carrying food to ferm
- 2. Removing weed
- 3. Giving water to plants.
- 4. Scaring every birds from field
- 5. Harvesting
- 6. Filling form yield
- 7. Collection of Agriculturel weste

Anything else observed

- G) Play/Recreation
- ty Playing with intends
- 2. Chit-Chetting
- 3. Watching TV
- 4. Visiting friends
- 5. Visiting heighbourhood-mates
- 6. Idelly wetching

Anything else observed

H)	Coblecting	fuel	COM	duna

- 1. Collection of broken end dry branches
- 2. Collection of cowdung from roadside
- 3. Collection of cowdung from form
- 4. Veking covedung cakes
- 5. Bringing cowdung cokes
- 6. Collection of agricultural veste from ferm

Anything else observed

1) Vage work/ Beonomic Activity

1. Working in others house for wage

Sweeping

Fetching

Cleaning grains

Cooking

Anything else observed

- J) Sleep/Rest
- 1. Taking nep
- 2. Just lieing down
- 3. Sleep

ANNEXURE III

Anthropmetric Measurements of Rural Girls Low - middle SES

Sr.No.	Height (Cm)	Height (Kg)	Sr.No.	Height (Cm)	Weight (Kg)
1.	100	45.0	22.	107	18.0
2.	106	16.0	23.	124	20.0
3.	107	18.0	24.	115	20.5
4.	102	15-0	25.	118	17.0
5.	110	18.5	26.	148	21.5
6,	109	16.5	27.	127	20,5
7.	110	17.5	28.	116	18.0
8,	107	17.9	29.	120	18.5
9.	110	17.5	30.	125	18.0
10.	108	18-0	31.	127	21.0
11.	123	20.0	32.	127	21.0
12.	109	17.0	53-	119	17.5
134	124	19.5	34.	120	18.0
14.	114	18 .0	35.	118	17.5
15.	112	19.5	36 ,	122	25.0
16.	127	50.0	37.	116	26.0
17.	122	19.5	38.	131	25.5
18.	108	18.0	39.	122	23.0
19.	125	19,5	40.	125	24.0
20.	118	17.5	44.	122	23-0
21.	110	18.5	42.	122	22.0

Styllo:	Height (Cm)	Weight (Eg)	Sr.No.	Height (Cm)	Weight (Kg)
45,	125	25.0	68	132	23.0
44.	135	25.5	69	123	22 0
45.	127	23.0	70	131	22:0
46.	124	27.5	77	147	36.5
47.	136	25-0	72	134	32 ·0
40,	123	22,9	73	147	36 ·0
49.	121	21,5	74	145	38.0
50.	118	20.0	75	144	36.0
51,	117	19,5	76	142	39 0
52,	118	21.5	77	146	38 ·0
53.	119	21.0	76	134	35 ·0
54,	122	21-0	79	443	40.0
55.	117	50.0	80	128	25 .0
56,	125	19.5	81	129	25.5
57.	118	20,5	62	136	36-0
56.	120	21.0	83	133	35·0
59.	119	20.5	84	145	37.0
60.	121	21.0	85	147	37.5
61.	150	20.0	85	145	30.0
62.	132	23.0	87	146	360
63.	132	23.0	88	145	35.5
64.	132	22.5	89	140	38.0
65+	132	22.0	90	145	30.0
66,	133	27.0	90	148	32.5
67.	127	21.0	92	147	35.0

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Sp.No.	lieight (Co.)	ueight (ug)	St.No.	Height (Cm)	Keight (Kg)
93.	146	32 -0	17.	112	50.0
94.	147	33.5	18.	109	19.0
95.	146	40.0	19.	131	23 .0
96.	146	42.0	20.	119	18.0
97.	162	48.0	21,	119	18.5
98,	155	43.0	22.	118	47.0
99.	153	40.0	254	113	17.5
100.	155	40.0	24.	117	15.0
101,	001e 585		25.	144	17.0
1		ж .	26.	120	20.0
1.	116	15.0	27.	115	28,5
2.	118	16 0	20.	112	16.5
3.	116	17.5	29.	107	18.0
4.	107	16-0	30.	126	27.0
5.	111	17.5	31.	122	28.0
6.	110	18,5	32.	129	30 .0
7.	118	18.5	35.	130	23.0
8.	116	16.5	34.	125	29.0
9•	100	50	35.	112	17-0
10.	107	19.0	36.	136	28.5
11.	125	25.0	37.	116	23.5
12.	126	25.5	30.	123	23.0
13.	115	20.5	39.	159	28.0
14.	108	16.0	40.	139	28.0
15.	110	18.0	41.	129.	21.0
16.	107	18.5	42.	140	30.0

	Sr.No.	Height (Gm.)	Weight (Kg)	Sr.No.	Height (Cm)	Weight (Rg)
	43,	120	20.0	68.	144	28.0
	44.	138	27.5	69.	137	25.0
	45.	138	30.5	70.	136	27.0
	46.	125	23.5	716	140	25.0
	47.	120	21.5	72.	152	39 :0
	AB.	137	29.0	73.	148	36.5
	49.	135	25.0	74.	155	45-0
	50.	137	22.0	75.	137	26 .0
•	51.	140	32.5	76.	138	28.0
	52.	140	31.0	77.	138	26,5
	53.	138	25.0	78.	141	31. 0.
	54.	128	23.0	79.	155	42.0.
	55.	136	24-0	50 *	133	41.0
	56.	137	24.5	61	155	37.0
	97.	126	25.0	82.	152	40.0
	58.	148	28.0	63:	163	39 .0
	59.	132	28.0	84.	151	40 .0
•	60.	139	29.0	85.	148	40.0
	61.	141	30 ·0	86.	148	38.0
	62.	139	29.0	873	152	40.0.
	63.	134	25.0	88,	159	45. 0
	64.	141	27.5	89.	154	42.0
	65.	140	28.0	90.	143	39.6
	66.	133	26.5	91.	151	38 -0
	67.	140	29.0	98%	149	38 ·6
	· ·		*	2		•
					-	

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Sp.No.	Height (Gm)	Height (Kg)
93.	450	44.9
94.	152	39.5
95.	157	41.5
96.	156	41.0
.97.	158	65. 0
.98	159	村の、
99.	156	40.0
100.	148	40.0

- 114

ANNEXURE IV

Percentages of Standard height, Weight and weight/ height of Rural Girls.

Sr.No.	Meight /Age,	Height/Age	Weight/Height
1	68,18	82.64	82.50
2	72,72	87,60	83,01
3	81,81	88,42	92,52
4	68.18	84,29	80,88
5	84.09	90.90	92.50
6	75.00	90.08	83.25
7	79.54	90.90	87,49
6	79.54	88:42	89.95
9	79.54	90.90	87.49
10	72.00	85.05	84.66
11	80,00	96.85	82.60
12	68.00	85.82	79.22
13	78.00	97.63	79.88
14	72,00	89.76	80,21
15	78.00	88,18	88,44
16	80,00	100,00	79.99
17	78.00	96.06	81.19
18	72.00	85.00	84.66
19	75.00	98,42	79.24
20	70.00	92.91	75-33
21	74:00	85.61	85.43
22	72 <u>.</u> 60	84.25	85 .45

	sr.No.	Weight/Age	Height/Age	Velght/Reight
	23	80.00	97.63	BT,93
	24	82,00	90.55	90,55
	25	60.71	89.39	67.65
	26	76.76	69,39	85,81
	27	73.21	96,21	76,02
	28	64,28	89,39	71.84
	29	66.07	90,90	72.61
	30	64,28	94,26	67.82
	31	75.00	96,21	77.88
	32	75,00	96-21	77.69
	33	70,00	90.45	69426
	34	64.28	90.90	70.65
	35	70,00	69,39	69,85
	36	75.75	88,40	85,65
•	37	78.78	84.09	93.63
	38	77.27	94:92	81,36
	39	69.69	88,40	78,80
	40	72.72	90-57	80,25
	41	69.69	88,40	76.94
- :	42	66.66	88,40	75,37
	43	75.75	90.57	83,60
	44	77.27	97.82	78.95
	45	69.60	92.02	75.70
	46.	65.15	89,65	72.47
	47	75.75	98495	76,83

Sr.No.	. Weight/Age	Height/Age	Velght/Height
40	69.18	89413	76,46
49	98.10	84.02	69.11
50	54.05	81.94	65.93
51	52.70	81.25	64.83
52	58710	81.94	70.87
53	96,75	82.63	69.87
54	56.75	84.72	68.64
55	54.05	81.25	66,95
96	52.70	86.80	66,49
57	55.40	81.94	67.07
58	56.75	84.33	67.01
59	55,40	82.63	62.65
60	50.00	79,60	60.16
61	47.61	78,94	62.90
62	54.75	86,84	62.90
63	94.76	86.84	61.53
64	55.77	96,84	57.9 5
65	52.38	86,84	73.20
66	64.28	87.50	59,69
67	50,00	83.55	62.90
68	54476	86.84	64.56
69	52.38	80.92	60.62
70.	52-38	86,18	84.67
71.	79-34	93,63	81.43
72	69-56	85.35	83.61
75	78.26	93.13	89.36

Sp.No.	Weight/Age	Height/Age	Weight/Height
74	82.26	92.35	85.25
75	78.26	91.35	84.04
76	76.08	91.71	88.75
77	82.60	91.08	89-06
78	76.08	92.99	75.38
79	86.95	85.35	66-60
80	54.34	91.08	67.40
81	55.43	81-52	90-26
82	78.26	86.62	89.73
83	76.08	84.71	87-01
84	80.43	92+35	87.01
85	80.43	93,63	86.98
86	65.21	92.35	70.55
87	78.26	92.99	84.08
88	77.17	92.35	87.48
89	82.60	89.17	92.55
90	60,00	90.62	66,20
91	65.00	92,50	70.27
9 2	64.00	91,87	69.65
93	64,00	91.25	70.13
94	67.00	91,81	72.92
95	74.07	90.12	86.30
96	77.77	90.12	86,30
97	88.88	100.00	68.88
9 8 .	79.62	95.67	83.22
99	74.07	94.44	78.43
100	74.07	95.67	77.41

Sr.No.	W. Suhaliana	Hatahê Îtan	toni atia Madaba
•	Weight/Age	Height/Age	Weight/Height
101	71.42	95.86	71,17
102	76.19	97.52	74.57
103	83.33	95.86	82.97
164	76.19	88,42	82,24
105	83.33	91.75	86.71
106	88.09	90,90	92.49
107	68-09	97.52	86,52
108	78.57	95.86	76.29
109	71.42	89.25	76.38
110	71.42	88,42	77.10
111	100.00	100.00	99.99
112	102,00	99,21	102.80
113	62. C 0	90-55	90,55
114	72,00	85.03	84,66
115	72.00	86.51	63,12
116	74.00	84.25	67.83
117	80.00	86.18	90.74
118	76.00	85,82	88,55
119	92.00	103,14	89.19
120	69.23	90.15	71.24
121	66.23	90.15	73,22
122	60.71	90.15	67.28
123	62.50	85,60	72.94
124	57.14		64.41

,	= 11	9 ,	,
Sr.No.	Weight/Age	Height/Age	Weight/Height
125	60.71	109.09	55.60
126	79.42	90.90	78,49
127	101.78	87,12	116.72
128	58.92	84,84	69,38
129	64.28	81.06	79.23
430	96.42	95.45	100,92
131	700.00	92,42	108.09
132	107.44	97.72	109.53
433	82,14	98,48	83.33
134	103,57	94,69	109.27
135	60,71	84.84	77.49
· 136	86 .36	100.00	86.32
137	71,21	84.05	84.68
138	69 .69	89.13	76 .68
139	84.84	100.72	95.15
140	84.84	100.72	65.04
141	67 .63	93,47	89.57
142	90.90	101:44	.89,66
143	60,60	86.95	87.29
144	85,33	100,00	92,38
145	92,42	100.00	78.58
146	71.21	90,57	74.89
147	65.15	86.95	82.34
148	78.37	90,13	82.32
149	67.56	93.75	72.00
150	59.45	95.43	90.30

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SpeNos	Weight/Age	Height/Age	Weight/Height
151	67,85	97.22	90+30
152	83.78	97.22	86.13
453	67.56	95.83	70:47
154	62.16	88.88	69.89
155	57.14	69.47	67.70
156	58,33	90.13	64.55
157	59 :52	52,69	71.62
158	66,66	97.36	65.29
159	66.66	86.84	76.57
160	59.52	90.44	64,92
164	71.42	92.76	76.60
162	69.04	91.44	75.35
163	59.52	68.45	67.31
164	65.47	92.76	70.40
165	66,66	92.10	72.20
166	63.09	651.69	71.92
167	69.04	92,10	74.77
168	66,66	94.73	70.19
169	59.52	90.13	65.87
170	64,28	89.47	71.66
171	34.34	89.17	60.89
172	84.78	96.81	87.49
173	23.69	94.26	68.70
174	97.82	98.72	98.99
175	56.52	87,26	64.79
176	60.86	67.89	69.18

Sg.No.	Weight/Age	Height/Age	Weight/Neight
177	57.60	67,89	65.48
478	62.00	88,12	70.35
179	84.00	96:87	86.70
180	62,00	83.12	98.64
181	74,00	96,87	76.38
182	80,00	95260	84.21
193	78,00	101.87	76,56
164	80,00	94,37	. 84.76
185	80.00	92.50	86.48
and the state of	Mary and a second	, , ,	
186	76.00	92,50	. 62.16
187	60,00	99,37	84,21
188	90,00	96.25	90,56
189	84,00	ES,27	87.27
190	64.31	88,27	73.42
191	70.37	93,20	75.49
192	74.07	92.99	76.51
493	73.14	93,62	77.96
194	76,85	96.91	79-29
195	75.92	96.29	78,84
196	79.62	97.53	81.64
197	75.92	98.14	77.35
198	75.07	96.29	79.99
199	74 ,07	91,35	84.00
200	70.37	91.97	75.49
		•	

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122

ANNEXURE **Y**

Time-Spending pattern of both SES groups Low-middle SES Vs middle SES

Activities	Age group and percentages of mean time			
, ,	7-9 (years)	10-12 (years)	13-15 (years)	
Personal needs/	4:34	-3,22	÷2.28	
Dømestië work	-2.41	-0.10	11.76	
Sibling care	-45.78	14.76	5.54	
School work	4474	-1.41	-0.73	
Ferm work	0.83	3.95	2,27	
Animal care .	3.32	-2.96	-2,47	
Collecting fuel/ cowdung	-5,40	11.09	1.90	
Play/Recreation	-4,99	2.61	-0.57	
Sleep/Rest	÷0.80	0.44	-0.71	

ANNEXURE VI

Correlation between reported and recorded (Investigator) time-spending pattern of rural girls.

Low-middl	e SBS group	
Activities	Cal. 'r'	Cal. t
1) Domestic activities	0.387	1.78
2) Sibling care	0.304	1.14
3) Play/recreation	0,233	1.01
4) Personal care	0.111	0.485
5) Rest and sleep	0,410	1.90
6) Collecting fuel/ cowdung	0.201	0.58
7) Farm work	0.410	1.91
8) School work	0,095	0.96
9) Anidal work	0.290	1.28
no Leadin	G awaren	
Niddle Se	a Rroub	
	Çəl.'r'	Cal. 't'
	•	Cal.'t'
Activities	Cal. 'r'	
Activities 7) Domestic activities	Cal.'r' 0.273	1.27
Activities 7) Domestic activities 2) Sibling care	Cal.'r' 0.273 0.280	1.27 1.05
Activities 1) Domestic activities 2) Sibling care 3) Play/recreation	Cal.'r' 0.273 0.280 0.401	1.27 1.05 1.86
Activities 1) Domestic activities 2) Sibling care 3) Play/recreation 4) Personal care	Cal. 'r' 0.273 0.280 0.401 0.079	1.27 1.05 1.86 0.33
Activities 1) Domestic activities 2) Sibling care 3) Play/recreation 4) Personal care 5) Rest and sleep 6) Collecting fuel/	Cal. 'r' 0.273 0.280 0.401 0.079 0.120	1.27 1.05 1.86 0.33 0.51
Activities 7) Domestic activities 2) Sibling care 3) Play/recreation 4) Personal care 5) Rest and sleep 6) Collecting fuel/ cowdong	Cal.'r' 0.273 0.280 0.401 0.079 0.120	1.27 1.05 1.86 0.33 0.51

ANNEXURE VIL

Calculated percentages of agreement for reported (rural girls) and recorded (investigator) activity pattern of rural girls.

7-9	Years	
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Low	middle SES	•	•	Middle SES
4)	95-77%			100%
2)	100%	Ą	;	95.77%
3)	96.10%		i.	94.28%
4)	96%			100%
5)	95%	• •	•	95.89%
6)	100%	•	**	100%

10-12 Years

Low	middle SES	•	Middle SES
1)	100%	, .	95.77%
2)	96.10%	*	100%
3)	95177%	• •	100%
4)	100%	٠,	96-20%
5)	400%	•	100%
6)	96.10%	۶,	96.106

13-15 Years

Low	-middle SES	Middle SES
1)	95:23%	100%
3)	100%	100%
3)	88,60%	96,10%
4)	94.73%	96.29%
5)	94.73%	100%
6)	95.77%	96.10%
7)	100%	100%
8)	96%	94,28%