NATIONAL NUTRITION MONITORING BUREAU

(Technical Report No. 6)

REPORT FOR THE YEAR 1979

NATIONAL INSTITUTE OF NUTRITON Indian Council of Medical Research Hyderabad-500 007.

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SECTION - I DIETARY AND NUTRITIONAL STATUS OF POPULATION IN DIFFERENT STATES

.2.

ANTHROPOMETRIC MEASUREMENTS BY AGE

ables 14-23	Kerala	26
	Tamil Nadu	27
	Karnataka	28
	Andhra Pradesh	29
	Maharashtra	30
	Gujarat	31
	Madhya Pradesh	32
	Orissa	33
	West Bengal	34
	Uttar Pradesh	35

PERCENTAGE: DISTRIBUTION OF PRESCHOOL CHILDREN ACCORDING TO

GOMEZ CLASSIFICATION

ables 24-26	Boys	36
	Girls	36
	Pooled	36

RESULTS OF POOLED DATA (1975-78)

Pattern of consumption in individuals 1975-78	37
Pattern of consumption in Households	38
Anthropometric measurements	40

INTAKE OF NUTRIENTS PER PAY

ables 27-49	1 year	41
	2 years	41
	3 years	42
	4-7 years	
	7-10 years	42
	10-13 years	43
		43
	13-16 years-Boys	44
	13-16 years-Girls	44
	16-18 years-Boys	44
	16-19 years-Girls	
	Adult Males (Sedentary)	45
	Adult Males (Moderate)	46
	Adult Males (Heavy)	46
	-	47
	Adult Females (Sedentary)	47
	Adult Females (Moderate)	

Adult Females (Moderate)

CONTENTS

		• • u	1
Introduction		•••	1
Coverage			2
Sampling Procedures		•••	
Pattern of Food and Nutrient Consu	nption	***	8
Protein-Calorie Adequacy		• • •	
Table-1 Coverage during the year		•••	15
Table-2 Districts surveyed during	che year	•••	15
Table-2 (A) Percentage coverage of daily per capita incom			16
Table-3 Daily intake of foods per	C.U.	•••	16
Table-4 Daily intake of nutrients	per C.U.	•••	16
Table-5 Distribution of households Inadequacy	according to Protein-calorie	•••	
PROTEIN-CALORIC ADEQUACY			17
		•••	17
Children 1-4 yea	rs	•••	16
Children 4-13 ye	ars	•••	18
Children 13-18 y	ears	•••	19
Adult males		•••	19
Adult Females		•••	
Lactating		• • •	
NUTRITIONAL STATUS			20
Clinical Signs		• • •	21
Anthropometry		• • •	
PREVALENCE OF DEFICIENCY SIGNS			00
Tables 7-13 Infants			23
Pre-school child	linon	•••	23
		•••	24
Children 5-12 ye		•••	24
12-21 years Hale		•••	25
12-21 years Fema		•••	25
21 years and above	<i>v</i> e Males	***	25

21 years and above Females

	.3.	
Pregnant Adult F	emales (Sedentary)	48
Lactating Female	s (Sedentary)	49
Lactating Female	s (Moderate)	49
PERCENTILE V	VALUES OF CALORICS AND PROTEIN INTAKES PER DAY	
Tables 45-48	In Children and Adolescents	50
	In Adult Population	50
	Expressed as % of RDA In children and adolescents	51
	Expressed as % of RDA in Adult Population	51
PROTEIN CALO	RIE ADEQUACY	
Tables 49 (A)-49((G) 1-4 years	52
	4-13 years	52
	13-18 years	
	Adult Males	53
	Adult Females (NPNL)	53
	Adult Females (Lactating)	54
	Individuals	54
CALORIE AND P	PROTEIN INTAKES FOR DIFFERENT STATES ACCORDING TO:	54
Tables 50-54	Land Ownership	
	Crop raised	55
	Major occupation	56
	For Harijans, Tribes and others	57
	Possession of milch/non-milch cattle at home	58
ANTHROPOMETRI	C MEASUREMENTS BY AGE	59
Tables 55-64	Kerala	
	Tamil Nadu	60
	Karnataka	61
	Andhra Pradesh	62
	Maharashtra	63
	Gujarat	64
	Madhya Pradesh	65
	Orissa	66
	West Bengal	67
	Uttar Pradesh	68
Table 65	Percentage Distribution of Preschool Children	69

according to Gomez Classification

ERRATA

- Page-15, <u>Table-2</u>. Add after Orissa West Bengal Cooch-Behar⁺ Howrah⁺ Murshidabad^{*} Bankura^{*}
- Page-18, <u>Table-6(B)</u>: Read N as 75 Instead of 69 for Gujarat Table-6(C): Read P C for West Bengal as 58• 8 Instead of 58.0
- Pege-19, <u>Table-6(D)</u>: Read P C as 21 .4 instead of 21.3 for Kerala and P C as 36.7 instead of 37.7 for Madhya Pradesh <u>Table-6(E)</u>: Read N, P C, P C & P C for Uttar Pradesh as 104, 13.5, 18.3, 68.2 instead of 112, 12.5, 17.0 and 70.5 respectively.
- Page-52, <u>Table-49(A)</u>: Read N as 136 instead of 138 for Gujarat. P C be read as 13.5, 35.9 and 38.7 for Kerala, Maharashtra and Orissa instead of 13.4, 35.8 and 38.6 respectively. <u>Table-49(B)</u>: Road P C as 70.7 and 41.3 for Karnataka and Andhra Pradesh instead of 70.6 and 42.3 respectively.

In keeping with the aims and objectives of the National Nutrition Monitoring Bureau (Plan of Operation, NNMB - 1972), the Central Reference Laboratory at National Institute of Nutrition, Hyderabad and Ten Regional Units of the Bureau, one each in the states of Kerala, Tamil Nadu, Karnataka, Andhra Pradesh, Maharashtra, Gujarat, Madhya Pradesh, Orissa, West Bengal and Uttar Pradesh, continued to collect data on dietary and nutritional status from representative segments of different population groups. Since the inception in 1972, the Bureau covered a total of 26,055 households under diet surveys and examined 1,62,837 individuals for clinical and anthropometric status till the end of December, 1979. Of the total sample of households covered, 19,632 were from rural areas, and the remaining 8,423 Were from Wrban localities. The sampling procedure adopted in the selection of the households is presented under the section "sampling procedures" of this report.

COVERAGE IN 1979

During the period under report (January to December, 1979), a total 4,609 households Were covered under diet surveys and 31,566 subjects Were examined for nutritional status. Urban-rural distribution of households covered in different states is presented in Table 1. The names of the districts and the period during Which these Were covered are presented in Table 2. In some of the states, due to certain practical and administrative difficulties like unapproachability of the villages, absence of the staff members, breakdown of transport etc., some of the selected districts remained either uncovered or partially covered. The results presented here, pertain, to 3.533 rural houses covered for diet and nutrition surveys in ten states. The data pertaining to urban sample is in the process of analysis.

Pa Section I of the report deals with results of analysis of data according to states, while in Section II, district-wise food and nutrient intakes according te daily per capita income groups have bean provided.

Pa

Ра

In the present report, attempts have also been made to provide the results of the analysis of the data accummulated during the period 1975-1978. The following aspects have been covered for this purpose.

 Mean Intakes of Nutrients according to age, sex and physiological status.

- 2. Mean Intakes of Nutrients according to land ownership.
- 3. Mean Intakes of Nutrients according to crops raised.
- Mean Intakes of Nutrients according to occupation of Head of the family.
- 5. Mean Intakes of Nutrients according to social class.
- 6. Mean Intakes of Nutrients according to possession of cattle:

SAMPLING PROCEDURES

The main object of statistical sampling is to obtain a representative sample of the population from each state, so that

the data collected regarding the dietary intake and nutritional status should closely reflect the situation as it exists in the population. A total of 500 rural households each year in each of the States are covered. Out of the 500 households, in 400 households family, food intake is assessed by one day Weighment (of raw food) method, while in the remaining 100 households, dietary intakes of all the individuals are assessed through oral questionnaire (24 hour recall) method of diet survey.

Selection of districts;

Since a State cannot be considered to be a homogenous group. it has therefore been decided to cover <u>all</u> districts Within each State over a period of time. As there will be marked variations even between districts, the districts are stratified into four developmental categories, based on the following district level information.

a) Total foodgrains produced per year (making corrections far rural to urban ratio, within each district).

b) Proportion of area under food crops to total irrigated area.

c) Proportion of agriculturists to the total number engaged in agriculture (i.e. agriculturists + agricultural labourers).

In each of these three criteria it is assumed that higher the value, higher is the district in the developmental scale. Hence, for each of the criteria, the district with the highest value, is given rank one while the district with the lowest value is given the last rank. After assigning ranks from these three

criteria, for each district, the folloWing procedure will be adopted:

	a)	The average rank for all three criteria put together fer
pa		each district Will be obtained;
	b)	The districts Will be grouped into 4 categories: A, B, C and
Р		D based upon the average ranks.
		The theoretically obtainable maximum average rank value Will
P,	be divi	ded into 4 equally spaced groups so that four quartiles are
	obtaine	d.

Example

If the maximum average value is 20, the folloWing four quartiles are obtained:

Рa

1st Quartile	- 1 to 5
2nd Quartile	- 6 to 10
3rd Quartile	- 11 to 15
4th Quartile	- 16 and above

Those districts With ranks between 1 and 5 will be grouped as A; between 6 and 10 as 8; between 11 and 15 as C and 16 and above as D.

In each of these four categories, one district is selected for study every year, by random sampling procedure. By this procedure, it is expected that all the districts in a State will be covered within 3 to 6 years depending upon the total number of districts in the State. Once all the districts are covered, the

second round of survey will start.

Number of households In each district

This is determined by using the following Information:

- a) Per cent rural population in each selected district to the total rural population of the State.
- b) Contribution of each selected district to the total percentage of rural population as obtained in (a).

Example :

If district (A) has 100,000 rural population and the State has 1000,000 rural population, the district's contribution will be 10%. If four districts are selected, whose combined contribution comas ta 25% of total rural population of. the State, then in the district (A) $10/25 \times 500$ households will be covered i.e. 200 (since it has been decided that 500 households will be covered In the State).

As the above mentioned procedure of .determination of number of households to be surveyed in each district was found to result in a few instances in inadequate number of households, it was decided in 1979 that uniformly 125 households should be surveye by the teams in each selected district. In the report, no corrections were carried out in the pooling of these data collected from different districts.

Selection of villages:

For this purpose, all the villages in each district will be

classified into the following three categories, using 1961 district census handbook.

Population below 1000 Population between 1000 - 3000 Population with 3000 and more.

Having obtained this classification, the total population in each of the three categories of villages will be estimated. The total number of households to be covered in the district will be distributed among these categories of villages according to the proportion of their respective population. The villages will be selected using systematic sampling procedure within each category. The number of households to be covered in each of the three categories of villages has been fixed as 5, 10 and 20 respectively.

Example:

Population in village	Below 1000 (A)	1000-3000 (B)	3000 (C)
Number of villages	100	90	10
Average population per village	500	2,000	5,000
Total population in each category	50,000	180,000	50,000

The proportion of households to be covered in each category of village will, therefore, be 5 :18 : 5. If in this particular district, calculations show that 140 households will have to be

covered, then 25 households in A, 90 households in B and 25 households in C will have to be covered. Thus, the number of villages to be selected in categories A, B and C will work out to 5, 9 and 2 villages respectively, out of 100, 90 and 10 villages in that district.

Having fixed 5 out of 100 villages in category A, the selection of villages will be done as follows:

- (a) Prepare a list of all these 100 villages (frame).
- (b) 5 out of 100 villages will be 1 in 20.
- (c) Select a random number between 1 and 20 eg: 4.
- (d) Village number 4 has been selected.
- (e) Go on progressing adding 20 te 4 eg: 24, 44, 64 and 84 etc.

Villages with these numbers will be selected.

The same procedure will be adopted for the other two categories of villages also.

Selection of households within a village

In the selection of the households within each village, it is ensured that the proper representation is given to the different segments of the population e.g. Harijans, artisans, landless, labourers, small or medium land owners and Well to do group. The selection of the households from these categories will be done by the team on the spot by random sampling after consultation With the village head.

Results

Income status :

Table-2 (A) presents the percentage coverage of total households according to Income Category. About 35% of the households surveyed during the year 1979 had an income of less than a rupee per person per day. While 36% belonged to the income category of Rs. 1-2 per capita per day, the coverage of households in higher income categories of Rs.2-5 and more than Rs.5 was 23% and 6% respectively. The coverage of households by income categories over the years remained similar.

Pattern of Food & Nutrient Consumption

Foodstuffs:

The average daily consumption of foodstuffs (grams) per consumption unit (CU) are presented in Table 3.

Cereals & Millets

In all the states, cereals and millets formed the bulk of the dietaries and their average consumption ranged from 390 to 655 g per CU per day. Inter state comparisons revealed that the maximum consumption (655 g) was seen in Orissa, followed by the States of Karnataka (634 g), Andhra Pradesh (591 g), Tamil Nadu (563 g), West Bengal (534 g), Maharashtra (503 g), Madhya Pradesh (470 g), Uttar Pradesh (461 g), Gujarat (413 g) and Kerala (389 g) in descending order.

However, for all the 10 states surveyed, the average consump-

tion of cereals and millets per day per CU was of the order of 522 gm.

Pulses:

The maximum consumption of different pulses Was seen in the state of Tamil Nadu (59 gm), followed by Orissa (52 gm), Madhya Pradesh (50 gm), Uttar Pradesh (44 gm), Karnataka (40 gm), Gujarat (34 gm), Maharashtra (33 gm), Andhra Pradesh (24 gm), West Bengal (23 gm) and Kerala (14 gm). For all the ten states, the average consumption was about 37 gm per CU per day.

Leafy vegetables;

The consumption of leafy vegetables Was found to be very low in almost all the states. The mean values ranged from 28 gms in the state of West Bengal to less than 1 gm in the state of Gujarat.

Other vegetables & Roots & Tubers:

Other vegetables and Roots and Tubers form the bulk of consumption of vegetables in the dietaries of these rural families.

Nuts & Oilseeds ;

The consumption of nuts and oil seeds was found to be maximum in the state of Kerala (53 gm) While in all the other states, it was less than 10 gms. This consumption of 53 gm of nuts and oil seeds in Kerala was predominantly contributed by the consumption of coconut.

Fruits & Flesh Foods;

The consumption of flesh foods was found to be maximum in

the state of Kerala (37 gm) while in all the other states, the wean values Were found to be leas than 15 gm. Fruit consumption including ripe tomato was found to be very low in all the states.

Milk:

The maximum intakes of milk was seen in the state of Gujarat (267 ml) followed by the states of Karnataka, Andhra Pradesh (121), Madhya Pradesh (103), Tamil Nadu (66), Maharashtra (62), Kerala (57), Uttar Pradesh (52), West Bengal (30) and Orissa (19).

Fats and oils; Sugar and Jaggery:

The maximum consumption levels of fats and oils and sugar and jaggery were also seen in the state of Gujarat, where milk consumption was found to be the highest.

It may be mentioned here that, in general, the dietaries of the rural families were predominantly cereal and millet based along with small amounts of pulses being consumed with very low consumption levels of protective foods like fruits, flesh foods and leafy vegetables. Though the amount of milk consumed was net very low, still there is large scope for Improvement in the consumption of milk in Indian dietaries.

Nutrients

Average nutrient intakes (per CU per day) calculated from the family diet survey data in different states are provided in Table 4.

The appropriate calorie coefficients were used (see appendix) for the analysis of data collected by Weighment diet surveys. These are suggested by ICMR Nutrition Expert Committes for different age, sex, activity and physiological groups. It May be mentioned here that these coefficients are mainly expected to be used for calories only. However, in the absence of such information for ether nutrients, the same Weightages have been used for the other nutrients as well.

Proteins:

In all the states, except Kerala, the average intake of protein Was found to be above the recommended level of 55 g. The ma imum average consumption (72 g) was found in Karnataka and minimum (46 g) in Kerala, while the rest of the states fell in between this range.

Calories (Kcal):

The average calorie consumption, in different States varied from 2783 in Orissa to 1983 in Uttar Pradesh. The average intake was found to be above the recommended level (2400) in the states of Orissa (2783), Karnataka (2751), Andhra Pradesh (2600) and Tamil Nadu (2534), while the states of Gujarat (2327), Haharashtra (2282) Madhya Pradesh (2705), West Bengal (2177), Kerala (2019) and Uttar Pradesh (1983) exhibit mean intakes below the recommended level of 2400 per CU per day.

Minerals and Vitamins:

Calcium:

The mean intakes of calcium ranged from 322 mg in West Bengal

to 1183 mg in Karnataka. The mean intakes corresponded te recommended allowances of 400-500 mg in all the states except in Weat Bengal (322 mg) and Uttar Pradesh (337 mg).

Iron:

In almost all the states surveyed the mean intake/CU of Iran was equal to or more than the recommended level of 20 mg per day.

Vitamin A:

In none of the states surveyed the dietaries contained adequate levels (750/ug per CU) of vitamin A. The lowest mean level of consumption was seen in Kerala (137 μ g) and the highest level of 415 μ g found in dietaries of Andhra Pradesh. In other states, the consumption levels fell between the values obtained in these two states.

Thiamine:

The highest mean intake (2.3 mg) Was seen in Karnataka and the lowest (0,5 mg) in Kerala. Mean intakes in Karnataka (2.3 mg), Gujarat (1.9 mg), Uttar Pradesh (1.7 mg), Madhya Pradesh (1.6 mg), Tamil Nadu (1.5 mg), Maharashtra (1.4 mg) Were above the daily recommended Intakes level of 1.2 mg, while in other states the mean levels were below the recommended level.

Riboflavin:

The mean riboflavin intake was found to correspond with the recommended level of 1.3 mg only in the state of Gujarat while in all the other states it was below that level.

PROTEIN-CALORIE APEQUACY

At Household level:

Intake of protein and calorie at the household level are expressed as intakes per CU. These figures represent the mean intake (per unit) at the household level.

To determine the adequacy or otherwise of intakes of protein and calories the following procedure use used:

Households wherein the intakes of protein and calories fell below the Mean - 2 SE of the recommended allowances, were considered as inadequate. All the households were, thus, classified into different categories of protein-calorie *ace*quacy and inadequacy.

The distribution of the households according to proteincalorie adequacy is presented in Table 5. The proportion of households consuming inadequate amounts of protein and calcries showed marked variations between states. The highest proportion of such households was seen in Kerala (41.0%) and the lowest (8.9%) in Karnataka. In all the states put together about 19% of households consumed diets which provided inadequate amounts of these two nutrients. The proportion of households whose dints provided accequete calories, without providing adequate protein was quite small (1.2%). Considering all the states together. 58% of the total households fell into the category of households consuming adequate amounts of protein and calories. The percent of households consuming inadequate amounts of protein was found to be lower (20%) than those which consumer

inadequate calories (41%). The number of households with calorie

inadequacy was quite high in Uttar Pradesh (65%), followed by Karala (54%), Madhya Pradesh (51%), Maharashtra (48%), West Bengal (43%), Gujarat (41%), Tamil Nadu (32%), Orissa (26%) and Andhra Pradesh (23%).

At individual level:

Using data obtained through oral questionnaire method of diet survey, Which provide information on the consumption of nutrients by individuals in a family, individuals (belonging to all age groups) were classified into four different categories of adequacy and inadequacy of proteins and calories. Mean - 2SD of the recommended levels (of corresponding age and sex) Were used as cut-off levels for adequacy of calories. The results are presented in Table 6.

The percent of individuals consuming inadequate calories and proteins Within the families surveyed ranged from 4% in Karnataka to 32% in Kerala. On the other hand, the percent of those consuming adequate calories and protein varied from 26% in Kerala to 72% in Karnataka. The overall percent of individuals consuming inadequate calories Was more than those consuming inadequate amount of protein.

The above picture gives the pooled results at the community level Which includes children to adults of different physiological status. These data demonstrate that the problem of calorie inadequacy is relatively of greater magnitude than that of protein and protein inadequacy was invariably associated with calorie inadequacy.

The report also presents the extent of protein-calorie adequacy/inadequacy according to age, sex and physiological status

(Tables-6 A-F).

	Number of households for diet survey					Individuals co- vered for nutri-
State	Rural		Urban		Total	tional assessment
	Weighment	Oral	Weighment	Oral		
Kerala	360	90	40	88	578	2823
Tamil Nadu	292	73	30	20	415	3094
Karnataka	404	101	120	78	703	5039
Andhra Pradesh	268	67	120	80	535	4678
Maharashtra	372	93	60	40	565	3335
Gujarat	264	66	120	80	530	3385
Madhya Pradesh	117	30	90	60	297	1610
Orissa	271	6V	60	40	435	2342
West Bengal	113	28	60	40	241	1592
Uttar Pradesh	368	92	30	20	510	3668
Total	2829	704	730	546	809	31566

NNMB-COVERAGE DURING THE TEAR 1979.

TABLE 2

NNMB-RURAL-DISTRICTS SURVEYED DURING THE YEAR 1979.

	Developmental Category						
	D C B A						
	January -March	April-June	July-September	October-December			
Kerala	Alleppey	Mallapuram	Kottayam	Paighat			
Tamil Nadu	Dharamapuri	Madural	Tirunelveli	Thanjavur ⁺			
Karnataka	Chitradurga	Belgaum	Coorg	Tumkur			
Andhra Pradesh	East Godavari	Khammam	Adilabad ⁺	Nellore			
Maharashtra	Thana	Satara	Nanded	Bhandara			
Gujarat	Kutch	Jamnagar	Surendranagar	Banaskantha			
Madhya Pradesh	Balaghat	Rewa ⁺	Shajapur	Durg ⁺			
Drissa	$Cuttack^+$	Bolangir	Ganjam	Sudargarh			
UTttar Pradesh	Azamgarh	Unnao	Ballia	Gonda			

+ Not covered

* Partially covered

TABLE - 2 (A)

NNMB - COVERAGE (%) OF HOUSEHOLDS ACCORDING TO DAILY PER CAPITA INCOME

Year	Income category						
-	Less than Rs. 1	Rs. 1-2	Rs. 2-5	Rs. 5 & more			
1975	41.6	32.2	20.9	5.3			
1976	33.4	34.3	25.2	7.1			
1977	32.3	34.5	26.2	7.0			
1978	33.2	31.7	25.5	9.6			
1979	35.0	35.5	23.3	6.2			

a a constant	Total ce- reals A Mil- lets	Pals-	Les fy vege- tables	Other vege- tables	Roots A tu- bers	Nuts A Oil cords	Con- d1- ments & Sp1- ccs	Fruite	Ylesh foods	Other Flori Soods	MIJA	Patr 6 013	SURAT & Juc- Fort
Kerela	389	14	` 	57	93	53	13	3	37	1	57	ħ	23
famil '	563	59	4	72	22	9	25	24	3	8	66	13	16
taka	634	40	7	52	26	8	21	6	1	2	121	10	35
Andbra Pradeah	591	24	26	38	39	۱	26	15	15	7	121	16	-
Maharastra	503	33	10	61	23	3	12	29	11	3	÷.	13	
Jujarat	+13	34	•	35	65	2	34	10	ı	•	267	28	49
is days	- h-20	50	5	52	41	1	10	6	~	Ó	103	16	. 7
Drissa 👘	-655	52	23	77	77	2	13	13	12	5	19	11	10
lest - 4 Bengel	534	23	28	84	51	1	4	7	7	2	30	8	12
	464	المله	18	54	75	· 0	3	13	3	2	52 `	2	14
TOTALS	522	37	13	58	51	8	13	13	9	3	90	12	£3

TABLE 3 NNMB-RURAL-AVERAGE INTAKE OF FOODSTUFF (g./cu/day)-1979.

Consumption less then one krem.

TABLE	4
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NNMB-RURAL-AVERAGE INTAKE OF NUTRIENTS (Cu/day) - 7999.

8tate	Proteins (g)	Calories (Kcal)	Calcium (mg)	TOU .	(itamin A (/0g) (Retinol)	Thiemine (my)	hiboflavin (wg)	nicotinic scid (DF)	¥41 D1A (4 m)
Kerala	46.1	2019	467	20.2	137	0.54	6.60	10.8	
Tamil Nadu	67.0	2534	758	34.9	221	1.51	0.95	14.1	38
Karnataka	. 71.7	2751	1183	42.3	270	2.28	1.19	:5.5	30
Andhra Fradesh	64.7	2600	692	32.6	415	1.05	6.28	15.3	54
Nahare shtra	61.5	2282	445	30.1	241	1.42	0.61	16.0	39
Gujarat ·	67.0	2327	698	27.8	312	1.87	1.41	14.9	31
Madhya Pradesh	61.0	2205	428	27.1	193	1.55	0.91	75.1-	30
Orissa	68.3	2783	434	32.8	304	1.02	0.25	17-2	55
West Bengal	55-1	2177	322	26.9	314	1.08	0.26	15.8	53
Ottar Fradesh	61.4	1983	337	28.2	295	3.74	• 4R	19.1	k_
Avere ge	62.4	2366	576	30.3	270	1_41	n, 3n	. 25.5	1.0
Recommended Intake (ICMR-1968)	55.0	2400	400-500	20.0	750 ,	1.20	1.30	16.0	50

TADTE	5
IADLL	J

NNMB-RURAL-PERCENT DISIRIBUTION OF HOUSEHOLDS ACCORDING TO PROTEIN-CALORIE INADEQUACY-1979.

83× 13	No. of Households covered	РС 	рс - +	P C + +	7 7 * *	F F	C -
Xerala	361	41_0	5.0	13.3	40.7	46.0	54.3
Temil Heds	- 292	13.7	1.0	18,2	67.1	14.7	31.9
Karnataka	403	8.9	0.3	16.1	74.7	9.2	25.0
Andora Pradesh	268	10.4	1.1	12.7	75.8	31.5	23.1
Maharashtra	371	21.6	0.3	24.5	53.6	21.5	40.1
Gujarat	263	15.2	0.8	25.5	58.5	1(,0	40.7
Nadhya Fradesh	117	23.1	1.7	28.2	47.0	74.1	51.3
Orises	268	16.8	0.7	9.0	73.5	1.	
(est Bengal	113	26.5	0.0	10.8	56.7	1.5	43.3
Ittar Fradesh	362	13.5	1.1	51.7	33.7	14.4	65.2
TALES		19.1	1.2	21.6	58.3	20.3	40.7

			TABLE-6			
NNMB -	PROTEIN	CALORIE	ADEQUACY	-	INDIVIDUALS	
			(1979)			

State	Ν	P C	P C	P C	P C
Karala	431	31.6	1.6	40.4	26.4
Tamil Nadu	352	5.1	-	31.0	63.9
Karnataka	661	3.9	-	23.8	72.3
Andhra Pradesh	305	8.2	_	27.2	64.6
Maharashtra	504	11.1	-	40.5	48.4
Gujarat	274	4.7	-	29.6	65.7
Madhya Pradesh	205	23.4	-	38.5	38.1
Orisaa	340	14.1	-	22.4	63.5
Wast Bengal	158	14.6	-	55.1	30.4
Uttar Pradesh	515	15.9	0.2	37.9	46.0

TABLE - 6 (A)

NNMB - PROTEIN CALORIE ADEQUACY IN CHILDREN (1-4 years)

(1979)

State	N	P C	ΡC	ΡC	P C
		- +	- +	+ —	+ +
Kerala	33	39.4	-	51.5	9.1
Tamil Nadu	61	9.8	-	44.3	45.9
Karnataka	78	16.7	-	42.3	41.0
Andhra Pradesh	42	9.5	-	42.9	47.6
Maharashtra	47	17.0	-	44.7	38.3
Cujarat	28	7.1	-	32.1	60.7
Madhya Pradash	26	15.4	-	38.5	46.1
Orisaa	17	17.6	-	41.2	41.2
West Bengal	20	10.0	-	70.0	20.0

Uttar Pradesh	77	26.0	-	57.1	16.9

NNMB - PROTEIN CALORIE ADEQUACY IN CHILDREN (4-13 years)

State	Ν	P C	P C	P C	P C	
	IN		- +	+ -	+ +	
Kerala	131	35.1	0.8	48.8	15.3	
Tamil Nadu	117	2.6	_	46.7	51.2	
Karnataka	227	0.9	-	30.8	68.3	
Andhra Pradesh	98	3.1	-	42.8	54.1	
Maharaehtra	176	6.3	-	50.0	43.7	
Gujarat	69	2.9	-	58.0	39.1	
Madhya Pradesh	68	22.1	-	45.6	32.3	
Orissa	96	14.6	-	24.0	61.4	
West Bengal	54	16.7	-	63.0	20.3	
Utter Pradesh	146	16.4	0.7	59.6	23.3	

(1979)

TABLE - 6 (C)

NNMB - PROTEIN CALORIE ADEQUACY IN CHILDREN (13-18 years)

(1979)

State	N	ΡC	P C	P C	P C	
			- +	+ -	+ +	
Kerala	51	49.0	2.0	37.2	11.8	
Tamil Nedu	17	-	-	29.4	70.6	
Kernatake	42	7.1	-	31.0	61.9	
Andhra Pradesh	16	25.0	_	43.8	31.2	
Maharashtra	33	12.1	-	48.5	39.4	
Gujarat	22	9.1	-	18.2	72.7	
Madhya Pradesh	14	28.6	-	35.7	35.7	
Orisaa	41	24.4	-	22.0	53.6	
West Bengal	17	11.8	-	58.0	29.4	
Utter Pradesh	28	17.9	-	57.1	25.0	

TABLe - 6 (D)

NNMB - PROTEIN CALORIE ADEQUACY - ADULT MALES

		(1979)			i	
\$tete		P C	÷ c	P C	P C • •	-
Kerele	89	21.3	2.2	39.3	37.1	
Tamil Nadu	76	3.9	+	11.8	84.2	
Karnatoka	167	1.3	-	18.5	60,2	
Andhre Predeeh	70	10.0	-	12.9	77.1	
Anharashtra	116	13.0	+	30.2	56.0	
Gujeret	70	7.1	-	17.1	75.:7	
Radhya Pzadeah	49	24.5	-	30.4	37.7	
Oriese	76	10.4	-	29. Z	60_4	
Weet Bengal	32	371	-	50.0	46.9	
Uttar Pradesh	125	9.6	-	19.2	71.2	

TABLE - 6 (C)

NNMB - PROTEIN CALORIE ADEQUACY - ADULT FEMALE (NPNL)

State		P C	.	₽ C + -	рс ••
Kerela	119	23.5	2.5	31.1	42.\$
Tamil Nodu	60	-	-	16.7	83,3
Karnataka	127	2.4	-	5. 5	92.1
Andhre Predesh	52	5,78	-	1.9	92.3
Ashersehtre	10 3	8.7	-	28.2	63,1
Gujerat	64	-	-	17.2	82.8
Radhya Pradach	40	27.5	-	27, 5	45.0
Orie me		12.0	-	. 9.3	77.9
Vest Bengel	22	18.2	-	36.4	45.4

12.5 - 17.0

70.5

TABAL-6 (F)

NNMB - PROTEIN CALORIE ADEQUACY - LACTATING (1979)

Utter Predeeh 112

State	*	• • • • • • •	P C	P C	P,C + +	
*	• • • • •					
Kerela	7	71.4	-	28.4	•	
Tumil Hadw	21	28.6	-	19.0	\$2.4	
Karnataka	29	10.7	+	17.9	71.4	
Andhre Predesh	24	16.7	-	25.0	54.3	
Mehereehtre	28	25.0	•	, 53.6	21.4	
Gujeret	18	11.1	-	72.2	66.7	
Radhya Pradesh	7	28.6	-	28.6	42.0	
Orless	3	-	- ,	33.3	66.7	
West Gengel	12	41.7	-	33.3	25.0	
				•		

Utter Presen	27	23,9	-	1843	974 V
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NUTRITIONAL STATUS

Of the total 31,566 subjects examined during the year 1979 for the presence of nutritional deficiency signs, 646 were infants (below 1 year), 3,719 pre-schooler children (1-5 years), 6,865 Were children between the ages of 5 and 12 years and the rest belonged to 12 to 21 years and above 21 years (adults) age group.

Clinical Signs:

The state-wise prevalence figures of different, nutritional deficiency signs by age groups are provided in Tables 7-13.

The pattern of nutritional deficiency signs, in general, was found to be similar to that observed earlier. The most commonly observed deficiency signs Were, Protein Energy mainutrition (PEM), deficiencies of vitamin A and 8 group. The signs suggestive Of PEM were seen more frequently in children under 5 years of age, while those of vitamin deficiencies in older children beyond the age of 5 years with a peak prevalence seen in the age group 5-12 years.

PCM

Clinical cases of marasmus/emaciation and kwashiorkor were seen in all the states. In general, the prevalence of marasmus/ emaciation was more than that of kwashiorkor, percent prevalence figures of which ranged from 0 to 0.7.

Vitamin deficiency signs;

Prevalence of ocular signs of vitamin A deficiency like

conjunctival xerosis and Bitot spots and oral lesions of B-complex deficiency such as angular stomatitis, glossitis etc., shoWed Wids variations and were seen in all the states. The highest prevalence of vitamin A deficiency (8.9%) was seen in the state of Orisaa whereas the maximum prevalence of B-complex deficiency signs Was observed in the state of Karnataka (8.3%) in children of preschool age.

Dental caries;

Dental caries, though cannot be considered as a nutritional deficiency sign, its 'epidemiological' relationship to the quality of habitually consumed diet by the population, is well known. Its prevalence was seen in all the states.

ANTHROPOMETRY

Tables 14 to 23 provide the means and standard deviations ef four body measurements viz. height, weight, arm circumference and fat fold at triceps according to age and sex. In general, the values for various measurements were lower as .compared to those observed on well-to-do Indian children. However, the growth pattern observed in the states surveyed was similar to that reported in earlier studies. Some abnormal values in standard deviation (S.O.) or anthropometric profile in general, are mainly due to data transfer errors (which have been identified). However, such instances being, feu the computer output of the results is presented as such. " *** in c.V." indicates that the S.D. is larger than the mean.

Prevalence of under nutrition in preschool children by weight-for-age criterion:

Weight for age profile of preschool children has often been used to assess the quantum of malnutrition in a community. Using the criterion (Gomez's classification), the children (1-5 years) surveyed Were classified into four different nutritional grades and their state-wise distribution is provided in Tables-24 to 26.

On the average about 78% of preschool age children Were found to suffer from 'mild' to 'moderate' degree of growth retardation while about 8% were found to fall in the category of 'severe' degree of growth retardation. The remaining 14% were found to have 'normal' body weights for age (equal to or more than 90% of standard weight for age). However, in general, girls seemed to fare better than boys in their growth status.

TABLE 7 NNMB-PERCENTAGE PREVAIENCE OF DEPICIENCY SIGNS INFANTS

State	<u>Etrela</u>	Temi] Fedu	Kernelske	Andhra Pradeah	Maharashtre	Gujarat	Hedhys Fradesh	Ori see	West Bengal	Uttar Predesh
Maper	28	99	116	65	96	64	13	21	32	90
uladi.	100.0	93.9	95.7	97.6	90.5	96.9 ⁻	100.0	100,0	96.9	93.3
Oedens .									~-	
Essciation			2.6	2.4	1.0				-	
Maressite		3.0	0.9			3.1				
fue or more, signe of PEM		_			1.0		, 			
Conj. xerosis									—	— `
Bitot's spot										
Totel vitamin "A" deficiency				_					-	**
Anguler Stomatitie										1.1
Other B-Complex Deficiency								÷		
Iotal B-Complex Deficiency					100 00 -					***
Carite							~~			

TABLE D NNMD-PERCENTAGE PREVALENCE OF DEFICIENCY SIGNS PRESCHOOL CHILDREN

State	Kerala	Tamil Nadu	Karnataka	Andhra Pradeah	Maherashtra	Gujarat	Hadhya Pradesh	Orissa	West Bengal	Utter Pradeah
Numper	244	401	666	491	458	312	114	214	209	59 8*
MAD	98.4	83.0	61.8	79.8	86.7	66.0	1 97.4	75.7	82.8	86.5
Oedema	- ++	0.2			0.2	0.3				0.7
Emeciation	0.4	3.2	2.9	0.4	0.9				3.3	,
Mareemua			0,Z	2.6	0,2	12.2	0.9	0.9		0.7
Two or more signs of PEN			0.3	0.2	1.5	0.3				
Conj. Xerceia	u.d	0.7		1,2		0.6		7,5	1.4	J.a
Bitot's epots	7-	2.2	1.1	0,8			0.9	1.4	1.0	
Total vitemin "A" deficiency		2.9	1.1	2,0		0.6	0.9	8.9	2.4	0.8
Angular Stomatitia	0.8		6.3	5.3	3.1	0.5	*	3.3	4.0	1.9
Other B-Complex deficiency			÷÷ =							سرج
latel B-Complex deficiency	0,6		6.3	5.3	1,1	0.6		3.3	4,8	1.9
Caries		1.0	2.4	1,6	1.1	0.3		2,8	1.9	0.2

TABLE 9

NNMB-PERCENTAGE PREVALENCE OF DEFICIENCY SIGNS 5-12 YEARS

Slate	K+rela	Tamil Nedu	Kernataka	Andhra Predesh	Meharschtra	Gujarat	Hadhya Prad¢sh	Oriesa	West Bengal	Utter Pradeal
Numpet.	482	597	1036	733	782	474	175	367	275	722
WAD	93.4	63.5	69.9	60.3	76.2	65.4	92.6	51.2	70.9	77.4
Cedena	.				0.1					
Encolation						0.2		0.5	1.5	
Keressus						z. 1		•		-
two or more signs of \$EM	~~					0.2	_			_
Conj. Xerosie	1.0	1.7	0,5	3.0	0,1	7.0		4.4	4.4	3.7
Bitot'e spote	0.8	3.0	2,6	1, 1	0,9	1.3	4.0	0.3	2.9	3.0
Total Vitamin *A* deficiency	1.8	4.7	3.1	4.1	1.0	8.3	4.0	4.7	7.3	6.7
Angular Stomatitie	1.0	11,4	12.4	11.6	5.0	4.9	1.7	12.8	5.5	3.2
Other B-Complex deficiency									**	
fotal B-Complex deficiency	1.0	11.4	12.4	11.6	5.0	4.9	1.7	12.8	5.5	3,2
Cerite	2.5	6.5	7.7	10.9	8.8	3.6	0.6	11.7	7.6	2,5

TABLE 10

NNMB-PERCENTAGE PREVALENCE OF DEFICIENCY SIGNS 12-21 YEARS MALES

s 	State	Kerale	Tamil Nedu	Kerneteks	Andhra Predaeh	Mehersehtre	Gujerat	Madhya Pradesh	Orissa	Vest Bengel	Utter Pradech
Number		323	\$78	612	351	405	301	73	190	128	607
NAD		87.6	73.0	80.9	75.6	84.0	76,1	93.1	71+1	_ 84 .4	81,2
Conj. Xeros	i.	5.3		-+	1.7	0.2	4.7		1.1		1.8
Bitot's apo	ote	1.5	2.9	1.9	0.6	0.7	·	5.6			1.3
Total vitem deficiency		6.0	2.9	1.9	2,3	0.9	4.7	5.5	1.1	. 	3. 1
Anguler Sto	matitie	3.1	4.7	6,2	6.8	2.7	2.7	1.4	9.5	0.8	2.1
ther 8-com deficiency			**								
otel 8-com deficiency		3, 1	4.7	6.'2	6,0	2.7	2,7	1.4	9.5	0.0	2.1
aries		2,2	4.7	3.3	3.4	4.0	7,0		6.3	3.9	2.6

TABLE 11

NNMB-PERCENTAGE PREVALENCE OF DEFICIENCY SIGNS 12-21 YEARS FEMALES.

State .	Kerale	Temil Nedu	Kernsteka	Andhra Pradesh	Ashareshtra	Gujarat	Radhya Pzedeah	Oriesa	West Sengal	Uéter Predesh
	246	274	395	361	30,5	204	79 ·	226	110	169
NAD	95.1	75.9	82.5	72.8	88.2	76.4	98.7	59,3	85.6	81.6
Conj. Xerosis	0.4	1.1	***	1.4		2.4				0.6
Bitot's spote		1.5	1.0	0,'6	1.0	1.0				
Total vitamin 4. deficiency	A' D.4	2, 6	1.0	2.2	1,0	3.4				0.6
Angular Stomati	tis 1,2	4.0	4.6	6.1	1.0	0.5		7.1	4.2	0.6
Other 8-complex deficiency										~*
istal 8-complex deficiency	1.2	4.0	4.6	6.1	1.0	0.5		7.1	4.2	0.6
	2.0	4.4	1.7	5.0	3, 3	2.9	1.5	5. 3	4.2	

TABLE 12

NNMB-PERCENTACE PREVALENCE OF DEFICIENCY SIGNS IN ADULT (21 YEARS AND ABOVE) - MALES

State	Kerela	Tamil Nadu	Kernstake	Andhra Pradesh	Maherashtre	Gujaret	Nadhya Pradesh	Orisea	Vest Bengal	Uttar Pradwoh
Number	375	475	793	475	610 .	392	186	4.54	20.9	572
NAD	93.6	83.1	89.9	72.4	77.2	82.4	90.9	80.6	75.6	77.6
Conj. xeroeis				0.2	* -	0.8				
Bitot's spote	0.3	0,'6	0.3	0.6		0.2	3. 2			0.5
Total vitamin * deficiency	A' 0.3	0.6	0.3	0.0		1.0	3, 2	••		0.5
Angular stomati	tis 0.5	0.4	1.1	6.1	1_0	1,0		3, 3	1.9	.و.ه
ther 8-complex deficiency							<u> </u>			 ,
fotal B-complex deficiency	· 0. 5	0.4	1.1	6.1	•-	1.0	_ 	3, 3	1.9	0.5
Carles	5.6	2.3	0.6	2.3	10.5	6.9	3.2	4.4	14.3	0.7

TABLE 13

NNMB-PERCENTACE PREVALENCE OF DEFICIENCY SIGNS IN ADULT (21 YEARS AND ABOVE) FEMALES

State	Kerele	Temil Nedu	Kernsteke	Andh ra Predeek	Mahazashiza	Gujeret	Nedhya Predesh	Orie#e	West Bengel	Utter Predech
Number	655	474	761	506	649	408	200	443	20 5	540
NAD-	95.7	50.,9	57.9	\$3.6	53, 3	59.8	91.5	42,0	65.8	58.1
Conj. xerosis	0.'2			0.4		1.5		0.2		
litot's epote		0.2	0.1	0.6	0.2		1.5			
fotel vitamin ' deficiency	a' 0.2	0.2	0.1	1.0	0.2	1.5	1.5	0+2		
Ingular stomati	tie 0.2	2.1	1.2	4.5	0.3	0.2	0.5	413	2.9	0.4
ither 8-complex deficiency		** -								
otal B-complex deficiency	0.2	2.1	1.2	4.5	0.3	0.2	0.5	4,3	2.9	0.4
aries	2.6	4.6	0.1	7.9	6.6	3. 7	1.5	11.1	21.0	

TABLE-14 (A)

_		Height (c	m)	Vei	ght (kg)		Arm C	lecunfer	ence (cm)) <u></u> \$k1/	nfold at	triceps (#	MI)
(J TS)	Ť	5.0.	Ċ.v.	×	5 .D .	C.V.	x	S.0.	C.V.	. x	S.O.	C .V.	
02	63.65	5.58	8.77	6.23	0.48	7.74	12.37	1.16	9.39	9,75	2.41		16
01	72.24	5.67	7.85	P. 56	Q	10.11	12.90	1.30	10.07	9.85	2.27	22.99	21
¢2	81.75	4.07		10.11	C.62	6.10	13.19	P.86	6.50	9.50	1.89	19.89	3(
03	84.63	7.54	8.51	11.19	0.79		13.32	1.10	P.26	9.01	1.91	19+45	- 32
04	94.47	5.42		12.90	1.02	7.94	13.65	1.04	7.60	9+35	2.46	26+32	4
05	102.01	7.86	7.70	14.23	1.02	7.20	13.96	1.10	7.91	8.39	1.6P	2(+00	3
06	106.75	4.90	4.59	15.62	1.41		13.93	P.81	5.83	7.74	1.77	22+86	3
07	111.82	8.14	7.28	16.47	1.20		14.10	1.39	9.86	7.75	2+0 A	26.78	3
	118.94	7.60	6.39	20.64	3.22		15.98	4.32	27.04	8.07	2.84	35-26	4
	121.15	5.60		19.89	1.22	•	14.98	1.00	6.70	7.43	1.94	26+06	3.
	125.91	5.28		22.27	1.29		15.43	0.98	6.36	6.89	1.96	28.81	4
	127.01	5.06	3+98	22.55	1.20		15+66	1.27	8.12	7.14	1.96	27.47	3
	131+68	6.08	4.62	24.59	1.46		16+25	1.34	8.24	7.09	1.91	26.92	6
	136.11	5.54	4+07	26.73	1.95		16-83	1.52	9.64	7+54	2.44	32.42	1
	144.61	7.70	5.33	31.48	2.68		17.86	1.71	9.60	7.06	2.22	31+30	6
	144.85	8.22		31.51	2.86		18.09	1.88	10.40	7.70	2.00	25.94	3
	153.57	7.86		38.55	2.84		19.87	2.24	11.27	6.77	2.41	35.53	2
17	160.65	6.39		44.72	2.65		21.57	1.47	6-82	7.73	2.86	37.08	2:
18	163-85	4.59		47.78	1.51		22.08	1.87	8.46	8-31	2.93	35.23	, 1
19	160-48	8.61		44.01	3.10		21.67	1.95	9.02	7.92	3.34	42.27	1
- 24	163.57	7.56	4.62	48.93	2.96	6.05	22.95	1.96	8.55	1.21	2+54	34.93	7:
-29	164-02	6.97	3.70	50.45	3.22	6.30	23.62	1.77	7.51	7.04	2.39	33.97	5:
- 34	161.88	5.80	3.59	50.49	3.96	7.65	23.68	2.33	9.85	7.91	3.51	44.95	3.
- 39	160.31	6.74		49.41	3.79		23.59	2.63	11-16	7.50	3.71	43.48	- 34
	160.62	6.40		49.04	2.98		23.49	2.26	9+61	7.94	3.60	45.30	3
	160.60	6.06		46.56	3.59	7.72		2.32	10.25	7.11	3.01	42-31	31
-54	159.55	6-17		47.61	4.48	9.37			9.86	7.40	3.26	44.12	33
- 19	160.76	5.03	3.13		3.35		23.23	2.24	9.62	8.09	3.97	37.89	3:
=60	160.84	6.67	4+15	49.30	4.28	8.67	22.97	2.54	11.04	8+06	3.54	43-88	5

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TABLE-14 (B)

NNMB - KERALA	- MEAN ANTH	ROPOMETRIC	MEASUREMENTS	8Y A(E (EEMALES)	÷ 1979

Age		H	eight (cm)		Veight (k	g)	Arm	Circumfer	ence (c	m) Skir	nfold at	tricepa	
(ידע)		x	\$.0.	C.V.	Ŧ	s.o.	C.V.	x	\$,D.	C .V	×	\$.0.	C.V.	N
90	6	3.11	6.09	9.63	6.79	1.20	17.61	12.70	1.25	9.01	9.42	1.44	15,33	1
C1 -	7 :	1.47	5.07	7.10	7.92	1.33	16.84	12.67	0.95	7.54	10.33	1.98	16.29	2
62	6)	1+40	4.57	5.61	9.53	1.50	15.71	12.92	1.06	8.22	9.59	1.30	13.52	2
03		7.2 *	6.28	7.20	11.23	1.57	14+02	13.42	0.94	7.13	10.38	1.96	18.92	3
4	93	3.15	5.47	5.87	12.51	1.19	9.49	13.75	1.22	8.44	10.24	1.74	16.98	2
65	100		5.27	5.25	14.04	1+67	11.88	13.69	1.19	8.70	8.74	1.93	22.07	3
06	160	5.51	7.15	6.71	15.71	2.49	15-83	14.12	1-14	8.05	8.26	2.25	25.36	2
Ċ7	106	3.36	5.68	5.24	15.80	2.13	13.48	14.04	1.52	10.84	8.25	1.60	19.41	2
68	115	5.92	5.77	4.98	18.80	2.46	13.08	14.92	1.22	A.19	R-17	1.42	22.30	3
09	119	9.36	5.92	4.96	20.20	2.58	12.77	15.30	1.04	6.79	8.22	2.67	32.+1	2
10	122	1.7e	7.65	6.23	21.23	3.19	15+02	15.52	1.19	7.69	P+40	1.08	23.63	4
11	128	.75	A.J6	6.26	24.41	4.15	17.00	16.59	1.51	9.76	8.55	2.14 *	24.97	2
12	133	5+8€	A.96	6.69	25.96	4.20	15.18	16.54	1.36	8+24	8-24	1.80	21.85	3
13	139	1.9 E -	7+18	5.13	29.86	4.87	16.32	17.64	1.62	9.17	8.33	1.91	22.82	2
£4 -	146	.07	9.39	6.22	35.06	6.96	19.84	19.00	2.03	10.68	9.29	2.35	25.60	3
15	147	40	7.15	4.87	37.64	6.27	16.66	19.88	1.88	0_44	9.41	2.87	36.51	2
16	146	.75	5.73	3.91	36.98	5.95	15.26	20.37	2.22	10.91	10.90	3.23	29.67	2
17	147	·#81	7.30	4.94	40.74	5.07	12.45	20.53	1.39	6.77	12-66	2.28	18.88	1
18	150	.10	5.99	3.99	41.65	5.12	12.06	20.99	1.57	7.5e	10.17	2.73	26+82	3
19	151	.21	5.24	3.49	44.32	4.47	10.16	21.54	1.54	7-14	12.50	3.38	27.05	ĩ
-24	149	.80	5.59	3.73	43.40	5.67	13-12	21+61	2.13	9.17	19.4R	3.61	34.61	12
-29	149	-56	5.71	3.82	43.03	6.06	14.09	21.51	2.06	9.60	10.94	4-18	30.21	11
-34	146	.91	5-69	3.95	42.12	6.76	16.04	21+31	2.30	10.55	10.56	4+52	42.84	. 7
- 39			5.40	3.63	42.41	7.35	17.33	21.40	2.36	10.97	10.33	4.30	41.65	ં શ
- 44 -	147	•36	5.67	3.85	42.84	10.06	23.48	22.32	3-11	14.13	11.50	5.71	49.69	6
-49	146	•65	6.84	4.66	42.15	8.39	19.91	21.20	2.52	12.3P	10.31	4.00	46.51	Ś
-54			5.44	3.72	41.99	7.85	18.70	21.95	2.61	12.60	11.72	4.84	41.27	6
-59	146	.85	6.66	4.53	39.72	6.94	17.46	21+2*	1+92	9.07	9+71	3.59	37.00	3
6 0 .	145	•1¢	5.93	4.08	38.92	6.89	17.70	20.96	2.12	10.14	9.24	3.25	35.27	6

TOTAL AUNDER OF RECORDS IN THE STATE = 9183

TABLE-15	(A)
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NNMB - TAMIL NADU - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES) - 1979

Age	He	ight (c.)	L L	Veight (kg)			Arm Circumference (cm) Skinfold at tricepe (m					mm) N
<u>(778</u>)	x	S.D.	C.V.	X	s.D.	C.V.	Ŧ	\$.D.	C.V.	X	5.0.	c.v	
00	63.37	6.45	10.81	6.39	0.86	13.42	11+21	1.55	13.82	9+37	2.83	30.22	4
01	71.05	3.95	5.56	9.07	3.41	37.61	11.57	1.09	9.45	8.58	2.33	27.20	34
¢2	79.56	4.10	5.16	9.49	0.63	6.69	11.96	1.39	11.69	8.42	2.24	26.59	4
03	86.61	5.56	6.41	11.11	0.89	7.98	12.73	1.11	6.73	9.87	2.14	21.64	6
04	\$3.70	5.23	5.58	12.65	0.46	6.80	12.99	9.91	7.03	9.43	2+58	27.39	6
	100.87	4.14	4.70	14.06	0.86	6.10	1 .00	0.68	6.74	7.79	2.18	27.95	4
	108-36	7.02	6.48	16-33	1-04	6.34	13.64	0.00	5.84	7.47	2.14	27-64	3
07	109.41	9.67	8.54	16.52	1.20	7.20	13.63	0.74	6.93	7.43	2.34	31.46	6
	113-98	7.40	6.49	17.75	1.53	8.62	13.71	0.07	6.37	6.70	1.35	20.17	1
	118.24	5.93	5.01	19.38	1.43	7.36	14+23	1.14	8,03	6.22	1.23	19-74	•
-	124.4 €	6.63	5.33	21.78	1.53	7-01	14.62	0.96	6.58	5.92	1.54	26.05	- 6
	128.85	7.31	5.67	23.18	1.73	7.46	14.79	1.00	6.79	6.02	1.71	28.45	•
	133.71	7.22	5.40	25+09	2.19	8.74	15-23	1.20	7.92	5.98	1.60	26.81	6
-	139.27	6.11	4.39	24.60	1.90	6.65	15.93	1.07	6.71	6.98	1.48	24.36	
	144.95	7.78	5-36	31.40	2.86	9.17	16.77	1.49	8.90	6+17	1.47	23.74	3
	146.65	5.70	3.89	32.52	1.77	5.44	18.73	8.63	46.33	5.50	1.22	21.12	2
	154.01	6.73	4.32	39.88	2.65	6.64	1#+72	1.79	9.10	6.29	1.*5	31.04	3
	162.50	4.97	3.06	46.04	1.48	3.22	20.05	1.04	5.19	6-08	1.24	20.39	1
	161.23	5.52	3-43	45.92	2.30	5.01	21.58	1.44	7.00	6.40	1.64	25.55	2
	161.16	5.18	3.21	46.93	2.52	5.36	26.74	1.65	7.96	6.52	2.23	34.14	2
	163.74	6.24	3-81	49.42	2.49	5.03	21.37	1.51	7.08	6.35	2.#1	44.27	8
29	164.0E	6.79	3.71	72.10	3.17	6.07	22.33	1.61	7.19	7+17	3.30	45.96	7
	162+14	7.93	4.89	51.44	3.53	6.26	22.02	2.13	9.67	6.91	3.76	54.36	5
-39	163-34	5.89	3.61	52.15	4.32	8.28	22.24	2.32	10.44	8.38	5.74	68.42-	7
44	162.33	7.75	4.77	53.77	4.18	7.70	22.42	2.31	10.30	6.63	5.01	5P.01	6
	163-70	7.42	4.54	50.46	4.70	9.32	21.65	2.26	10.44	7.00	3.80	54.32	6
	160.95	5.69	3.54	51.81	3.32	6.41	22.02	2.30	10.43	8.95	4.77	53.22	2
-	162.62	5.65	3.49	50.40	2.8A	5.71	21.68	1.98	9.11	7.24	2.62	36.27	2
	160.58	4.81	2.99	47.57	2.61	5.49	21.04	1.71	8.11	e-16	2.75	33.74	3

TABLE-15 (B)

NNMB - TAMIL NADU -MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1979

) N	triceps (mm)	fold at 1) Skin	nce (cm	cua fer	Arm Ci)	eight (kg	v)	ight (cm)	He	
	C.V.	5 .D .	x	C.V.	S.D.	x	C.V.	S.D.	x	C.V.	\$.0.	X	Age (yrs)
-51	*****	10.31	10.16	18.94	2+03	10.74	*****	B.56	6.75		#¢.30	72.79	32
32	25.90	2.04	7.89	12.15	1.34	11-02	96.43	8.70	9.02	12.48	8.62	49 . 10	91
.,53	28.75	2.76	19 . 58	12.96	1-43	11.82	16.65	1.50	9.03	6.85	5.35	78-14	02
`5€	27.32	2.75	10.05	14.71	1.86	12+68	17.25	1.64	10.65	7.38	6.24	84+5 E	03
,5ª	27.23	2.54	9.31	7.95	1.00	12-60	15.12	1.00	11+91	7.50	6.85	71+32	04
33	23.84	2.06	P.64	7.72	1.02	13-26	15.43	2.15	13.92	6.95	6.95	98.59	05
14	*****	19.57	12-36	17.49	2-42	13.93	30.23	4.75	15.70	6.35	6+63	103.9E	
43	29.20	2.33	7.19	7.12	0.97	13-58	16.77	2.77	16.54	5.83	6.39	109.72	
	22.92	1.70	7.40	6.95	0+97	13.93	13.45	2.38	17.68	5.64	6.47	114.84	
3 3	23.03	1.57	6.82	11.30	1.61	14+25 ···	12.37	2.39	19.34	4.49	5.35	119.0 <i>€</i>	
43	30.12	2.29	7.60	7.53	1.15	15.23	9.35	2.05	21.89	3.83	4.75	124.26	10
-39	29.73	2.29	7.69	8.68	1.36	15+63	13.47	3-36	24.26	4.53	5+91	130.26	
41	57.27	4.75	8.29	10.62 .	1.72	16.23	20.65	5.63	27.26	5.73	7.71	134.5E	
- 31	20.43	2.30	7.80	9.36	1-61	17-16	16.51	5.11	30.99	4.72	6.55	[4].0 A	
34	36.48	3.5P	9.62	11.33	2.05	18.15	14.45	5.24	36.34	4.51	6.65	147.54	
- 26	36.11	3.92	10.65	6.42	1.57	18.6C	16.00	6.01	37.56	3.92	5-81	L48+11	
- 30	37.39	4.20	11.23	7.66	1.39	19-65	10.81	4.32	*9.98	2.93	4-40	150+13	
20	24.16	2.63	10.90	5.00	1.16	20.00	9.34	3.96	41-34	2.84	4.29	151-04	
3:	39.78	4.55	11.44	6.84	1.30	20.14	11.65	4.98	42.76	3.04	4.60	151.57	
19	31.26	3.65	11-68	8.47	1-75	20-71	11.63	5.20	44.76	4.07	6.12	153-10	
110	42.35	4.72	11+15	7.85	1.57	20.05	13.67	5.66	43.20	3.61	5.49	151.85	-24
9	43.64	5.81	10.95	9-14	1.45	22+37	14-89	6-54	43.93	4.11	6+22	151-48	-29
71	55.00	6-19	11.25	10.53	2-17	20.62	15.22	6.66	43.78	3.54	5.38	51.67	-34
61	59.50	7.53	12.66	12.69	2-67	20.75	18-60	8.13	44.43	3.44	5+22	151.51	- 39
5	53.21	6-82	12.43	9.94	2.04	20.93	18.54		45-15	3.76	5.69	51.4P	-44 :
3	53.61	5.96	11.12		2.52	20-25	18.28	7.69	42.05	16.50	24-18	46.52	-49
2	40.97	4-10	10.00		2.91	19.77	15.72		40.50	3.42	5.14	50.23	-5+ :
21	65.66	9+29		16.89 .	3.65	21.58	23.94	11-36	47.45	4.21	6.37	51+34	-54
3	44.21	4.63	10.47		2.23	19.77	19.16	7.72	40-31	4.84	7.23	49.31	×=6C 1

TOTAL NUMBER OF RECORDS IN THE STATE = 11403

TABLE-16	(A)
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28

NNMB - KARNATAKA - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES) - 1979

	H	eight (ce	•)	1	Veight (k	g)	Azų i	Circumfe	rence (ca) Ski	nfold at	circaba	/ am / H
Age (yrs)		\$.0.	C.V.	×	\$,0,	<u>c.v.</u>		\$.0.		. x	\$.D.	C .V .	
02	61.90		10.13	6.23	0.84	13.41	12.89	1.61	12.45	7.55	2.26	29.93	62
01	72.67	6.27 5.68	7.62	8.00	C.76	9.50	13.14	1.19	9.09	6.73	1.73	25.71	74
02	81.12	5.06	6.24	9.74	C.77	7.91	13.78	1.24	9.00	7.22	1-61	25.11	78
03	86.82	5.75	6.63	10.61	0.87	8.26	13.99	1.26	9.02	7.58	1-92	25.39	91
04	94.02	6.51		12.46	1.20	9.60	14.36	0.99	6.92	7.30	1.54	21.08	115
05	109.73	5.46	6.92 5.42	13.69	0.68	4.99	14.43	1.07	7.44	6.63		25.06	-51
06	107.62	8.55		15.28	1.03	6.75	14.65	1.07	7.34	6.02	1.63	27.13	87
67	112.00		8.08			6. 25	14.89	1.01	6.75	5.66		27-34	85
08	117.42	6.74	6.01	16.70	1.14	6.#3	15.07	1.45	9.64	5.02		26.78	95
29	121.49	5.78	4.92	18.65	1-27	7.11	15.98	1.15	7.19	5.22		27.17	70
10	127.46	5.95	4.90	20.24	1.44	7.47	16.34	1.16	7.13	5.10		25.90	105
11	133.25	6.95	5.45	22.31	1.67 2.24	9.02	16.88	1.45	8.58	5.04		27.90	71
	137.10	7.41	5.56	24.86		9.28	17.38	1.47	8.43	4.90		27-20	121
	140.12	8.53	6+22	26.78	2.48 2.22	T.93	17.80	1.80	10.13	5.15		31.08	75
13		7+82	5.58	28.01		14.33	19.41	1.88	9.69	4.99		22.33	76
14	148.04	9.01	6.09	33.89	3.50	8.26	20.35	2.08	10.20	4.67		37.84	53
15 16	153.57	6.80	4.43	37.61	3-11	8.20 7.f3	21.06	1.95	9.26	4.64		27.56	. 70
17	159.59	6.98 7.65	4.46 4.90	39.84 42.69	3-04 3-12	7.31	21.31	2.09	9.60	4.57		30.38	- * 4 1
18	165.52	33.21	20.06	45.48	3.23	7.09	23.33	3.42	14.65	5.41		****	63
19	163.20	6.22	3.81	50.29	5.16	10.26	23.65	1.69	7.14	4-58		36.65	26
	163.82	5.65	3.46	46.93	2.75	5.69	24.55	1.76	7.97	4.95		39.35	150
	165.01					6.86	24.89	1.96	7.69	4.92		48.05	100
	164.50	6.91	4.18	50.51	3.47	7.58	24.76	2.48	10.02	5.29	-	53.00	106
	164.6	6+53 6+47	4.03 3.92	50.56 50.81	3.F3 3.94	7.75	24.89	2.51	10.07	6.09		56.79	100
	163.72					8.24	24.66	2.54	10.30	5.56		48.86	116
	163.43	6.09	3.72	50.03	4.12	2.27	24.55	2.75	11.21	6.29		61+06	
		6.44	3.94	50.09	4.53		23.92	2.62	10.94	6.18		56.43	51
	163.10 161.95	6.77	4.15	48,40	3.12	6.44 9.26	23-66	2.68	11.34	5.56		44.35	59
	163.27	8.00 5.75	4.94 3.52	47.34 48.21	4+38 4+01	5.31	23.22	3.04	13.10	6.27		56-92	93

TABLE-16 (B)

NINIMD _	KARNATAKA ·		NTHROPOMETRIC	MEASUREMENTS	BY ACE	(FEMALES)	_ 1070
NNMB -	NARNAIANA -	- MEAN A	NIERUPUMEIRIU	MEASOKEMENIS	BY ACE	(FEMALES)	- 19/9

Age	, н	eight (cm)		Veight (kg)	Arm (Circumfe	rence (d	m) Ski	nfold at	triceps (, nm) N
(718)	×	\$.0.	C.V.	. T	5.0	• C.V.	Ŧ	S.D.	C .V .	x	S .D.	C.V.	
00	61-12	5.51	9.01	5.89	1.50	25.42	12.51	1.40	11.22	7.88	2.23	28.30	5
91	70.41	4.32	6,12	7.61	2.04	26.86	12.81	1.13	8.81	7+15	1.92	26.79	5
02	79-22	5+78	7.39	8.94	1.53	17.16	13.36	1.31	9.78	7.62	2-18	2P.63	7
03	85.37	5.45	6.39	10.24	1.60	15.60	13.90	1.17	8.44	8.26	2.00	24.19	8
64	92.6E	5.67	6.12	11.87	1.47	12.38	14.25	1.00	7.0	* +26	4.24	51.40	91
65	99.14	7.20	7.26	13.44	1.98	14.72	14.66	10م1	6.90	7.67	1.97	24.33	5
	105.24	6.54	6.22	14.82	2.15	14.51	14-81	1.18	7.96	6.73	1.73	25.63	71
	110.56	5.76	5.21	16.36	2.18	13.30	15.10	1.08	7.16	6.35	1.69	26.64	5
	116-47	6.05	5.20	18.21	2.14	11.75	15.52	0.97	6.22	6-32	1+49	23.61	8
	121.31	5+92	5.62	19.75	2+62	13.27	15+63	1.25	7.87	6.25	.1.70	27-21	6
	127.44	6.97	5.39	22.59	3.22	14.2P	16491	1.33	7.8A	6.32	1.78	2*+10	
	133.55	7.62	5.71	23.90	3.22	13.48	17.02	1.28	7.50	5.77	1.42	24.57	
-	137.66	7.93	5.76	27.67	5.33	19,25	18+25	1.96	10-73	6.36	2.29	35.99	74
	144.67	7.57	5.23	32.73	5.19	15.85	10+63	1.91	9.72	7.13	1.95	27.36	41
	147.74	6.85	4.64	35.89	5-59	15.57	20+64	2+25	10-79	7.82	2.54	32.48	5
	147.14	5.21	3.49	39.46	4.37	11.36	21.77	1.87	8.56	9.21	2.78	30.20	30
	151-78	8.15	5.37	41.28	5.54	13.43	23+25	2.05	8.97	10.11	3.11	30.78	
	151-1 *	5.53	3.66	40.63	4-10	10.09	22+54	1.83	8.13	9.61	2.91	36-31	1
	151.41	5.65	2+12	42+08	4.63	11.01	22.98	1.79	7.77	9.76	3.47	35.53	51
	152.53	6.71	4.40	44.14	5.97	13-54	23.43	1.90	P+09	9.RG	3.08	31-23	•
	151.42	8.46	5.59	42.27	6.12	14+47	23.17	3-31	14.27	8.98	3.91	43.58	14:
	51-02	5.41	3.58	41.68	6.51	15.43	22.95	2.44	10+65	A+27	3.87	46.76	14
	52-16	5.85	3.85	42.66	6.99	16.34	23.41	2.52	10.76	5.48	3.63	42.83	13:
	51.69	5.85	3.86	42.26	7.08	16.74	23.30	2.44	10.46	P.31	4.51	54.20	99
	50.96	5.95	3.96	42.08	6-58	15.64	23.18	2.44	19.53	R.73	/ 3.73	42.66	51
	49.8E	5.78	3.86	42+10	9.19	21+84	23.42	3-44	14+71	P+65	5.22	62.33	51
+ -	50.65	5.21	3-46	43.73	8.59	19.61	24.04	3.38	14-05	10.29	6-26	60.84	
- **	48.06		3.78	42.18	10.13	23-63	24.09	3.57	14.80	10-19	7.40	72.65	
=40 l	47.57	5.96	4.04	40.29	7.P2	19.41	27.68	3.29	14.45	8.13	4.07	50.05	

TOTAL AUMBER OF RECORDS IN THE STATE = 17473

		eight (ce)	u u	eight (k	a)	Arm C	ircumfe:	rence (ce) Ski	nfold at	tricepe	(en)
Аде (ут5		\$.0.	C.V.	x	5.0.	C.V.		\$ <u>.0</u> .	C.V.	IX.	5.0.	C.V.	
00	61.81	6.24	10.10	5.81	0.79	13.54	12.12	1.56	12.=5	7.54	1.60	21.18	4
01	74.5C	3.47	5.33	8.48	0.73	8.59	12.77	1.41	11+05	7.37	1.90	24.36	5
02	82-04	4.58	5.58	9,98	0.78	7.65	13.42	1.05	7.63	7.88	1.98	25.08	5
03	88.2E	4.10	4.65	11.23	0.70	6.19	13.41	0.99	7.20	7.43	1.85	23.27	5
34	95.04	5.03	5.29	12.75	0.79	6.22	13.86	1.12	8.07	7.63	2.01	26.32	7.
35	102.55	5.39	5.25	14.69	0.70	5.29	14.32	1.09	7.62	6.88	1.63	23.64	4
15	107.83	4.71	4-37	15.83	0.83	5.27	14.50	2-14	14.74	5.96	1.60	26.92	5
07	113.5E	5.27	4.64	19.55	2.91	15-69	15-19	2.94	19.36"	6.44	4.21	65.33	7
98	119.00	5.*5	4-92	19.30	1.15	6.10	14.89	1.02	6.86	5.36	1.24	23.12	7
39	122.71	4.70	3.83	20.39	1-04	5-11	15.33	1.02	6.67	5.00	1.36	23.45	5
10	128.44	5.47	4.26	22.44	1.04	4.62	15.01	0.90	5.72	. 70	1.51	26.40	6
11	132.22	4.76	3.69	24.02	1.25	5.19	16.28	0+98	6.01	5+37	1.19	22.24	4
12	135.07	6.19	4.58	26.64	1.45	5.43	17.16	1.00	6.28	5.66	1.53	26.98	5
13	141-74	6.76	4.77	29.25	1.92	6.55	17+68	1.19	6.71	5.50	1.33	24.20	4
14	146.43	6.27	4.28	32.18	1.76	5.48	18-41	1.71	9.28	5.93	1.78	30.07	3
15	152.50	7.11	4.65	16.56	2.39	6.53	19+63	1.46	7.42	5.42	1.47	27.02	4
16	155.84	9.55	5.49	39.24	2.75	7.02	20.59	2-16	10.49	5.96	1.77	29.74	2
17	160.17	5.88	3-67	42.40	2.00	4.71	21-35	1.73	8.11	5.13	1.31	25+61	2
16	160.90	5.70	3.54	44.36	2.23	5.04	22+04	1-61	7.29	5.56	1.19	21-49	5
19	161.83	7.56	4.67	47.39	2.55	5.39	23.29	2.09	8.98	6.33	2.40	31.97	2
-24	162.9#	6.A9	4.23	48.37	2.42	5.01	23.73	1.83	7.70	5.50		35,71	9
-29	163.23	7.15	4.38	49.90	2.72	5.45	24.21	2.03	8.38	5.00	2.52 '	43.40	6
-34	164.08	5.78	3.52	51.37	3.54	6.90	24.70	2-19	8.96	6.61	3.16	47.74	6
- 39	164-14	6.57	4.00	53.88	3.67	6-81	25.27	2.30	11-19	7.43	3.89	52.35	5
	163.51	6.20		51-24	3.06	5.98	24.39	2.26	9.78	6-63	2.96	44.69	' 5
-49	164.94	7+12	4.32	52-34	3-50	6.71	24.52	2.64	10.77	7.08	3.51	49.58	3
-54	163-8?	4.18	2.55		3-29	6.23	24.70	2.79	11.30	7.39	3.12	42.24	2
- 19	165.A2	6.59		52.21	4.57	8.75	24.25	3.06	12-64	8.08	5.27	65.32"	2
	162.36	11.40	7.02		3.59	7.12		2.51	10.70	7.04	3.08	43.77	

TABLE-17 (A)

NNMB - ANDHRA PRADESH - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES) - 1979 29

TABLE-17 (8)

NNMB - AN	DHRA PRADESH -	MEAN ANTHROPOMET	RIC MEASUREMENTS E	BY AGE	(FEMALES) -	1979

Age	н	eight (c	•)		Weight (k	9)	Arm (Circumfer	ence (c	m) Ski	nfold at	triceps "	(mm) N
(yrs		\$.D.	C .V.	x	S.O.	C.V.	Ŧ	5.D.	C.V.	x	S.D.	C.V.	
90	61.97	5.45	6.79	5.81	1.58	27.22	12.22	1.31	10.69	7.66	1.97	24.43	4
91	72.64	4.19	5.76	7.82	1-42	18.15	12.52	1.50	11.96	7.60	1.83	24.12	42
02	90.43	84.92	93.91	10.70	9. *7	92 + 30	13.23	1.85	14.24	°•12	6.29	66.76	JA 61
03	87.2 1	6.62	7.59	10.98	1.64	14.92	13.60	1.35	9.94	7.92	1+89	23.83	61
G 4	94.0E	4.87	5.18	12-50	1.67	13.36	13.99	1.19	8.531	*•23	2.27	27.56	50
05	101-06	5.44	5.38	13.91	1.72	12.37	14+02	0.95	6.78	7.52	1.74	23.26	- 1 N
96	106-54	6.65	6.24	15.59	2.29	14.81	14.51	1.08	7.45	7.05	1.64	26.05	
07	112.82	4.80	4.26	16+91	2.24	13-25	14.67	1.34	9.10	6.31	1.99	30.10	51
69	118.60	5.62	4.74	19.16	2. 3R	12.42	15-36	1.11	7.23	6.50	1.59	24.40	69
39	123.0 #	5.19	4.22	20.63	2.34	11.33	15.93	0.54	5.93	7.13	1.*3	27.12	41
10	128.1 C	5.78	4.51	22.92	3.00	13-10	16.51	1.29	7.76	6.59	1.65	25.06	43
11	132.59	6.55	4.94	24.46	3.17	12.94	16.82	1.12	6.6R	6.42	1.51	23.54	51
	138.66	5.95	4.29	2*.55	3.72	13.03	18.15	1.27	6.99	7.63	2.92	26+52	65
	141.45	8.63	6.]9	30.96	4.86	15.69	16.93	1.#3	9-72	8.14	2.36	29.04	3:
14	147-75	4.96	3.36	35.61	3.40	9.54	20.20	1.37	6.TB	8.68	2.33	26.23	21
	147.25	5-12	3.47	16.73	4-52	12-31	20.76	1.74	8.39	9.7Ż	2.94	30.28	34
	156.52	5.10	3.39	40.75	4.88	11.97	21+8*	1.72	7.86	11.11	3.51	31.54	
	150.48	5.81	3.86	41.97	5.89	14+13	22.39	1.96	8.73	10-#4	3.47	35.75	2:
	152.40	5.57	3.66	43.23	5.76	13.33	22.42	1.70	7.57	10.97	4.42	40.26	
	152.02	6.15	4.04	43.30	4.35	10.17	22.47	1.75	7.90	10.55	2.79	26.42	23
	125.30	5.41	7.55	42.32	5.72	13.72	21.95	1.86	8.48	10.03	3.83	32.16	120
	152.32	5.59	3.67	44.49	9.03	23.30	22.75	2.69	11.84	19,92	5.88	53.84	91
	151.71	5.68	3.74	42.95	6.43	15.(8	22.57	2.19	9.70	10-63	4.75	44.64	
	153.71	5.65	3.77	43.25	6.97	16.12	22.72	2.61	11.47	10.46	4.02	55.46	5 73
	151.54	5.77	3.82	41.67	6.10	14.64	22+34	2.55	11-43	10.40	5.46	52.46	5:
	151.62	6.77	4.48	41.60	5.48	14.18	22+65	2.36	16.43	10.46	4+66	44.54	23
	149.77	5-19	3.46	44.32	7.38	16.64	23.64	2.86	12.09	12-17	5+71	46.91	33
	150-71	4.10	2.72	44.71	9+21	23.59	23-14	3.77	16.31	12+26	6-11	47-82	2
= 60	148.98	5.36	3.60	43.83	11.39	25. 98	22.64	3.36	14.82	10.85	5.34	47.26	54

TOTAL AUNPER OF RECORDS IN THE STATE = 13676

TABLE-18 (A)

	H	eight (c	n)	۰ <u>۱</u>	Jeight (k	:g)	Arm (Circumfe:	rence (ci	n) 3k1)	nrold at	triceps :	(#M) N
Age (yrs)	<u> </u>	S .0 .	C.V.	×		<u> </u>	<u> </u>	۰ D. S	C.V.	×	5.0.	C.V.	
00	62.00	5.59	9.01	5.99	0.76	12.71	13.03	1.71	13.16	7.85	2.86	36.38	Ę
21	69.8 F	7.16	10.25	7.59	C . 78	10.31	12.01	1.31	10.19	7.62	2.13	27.91	4
12	18.22	5.74	7.34	9.17	C . 78	8.54	13.27	1.07	14.11	9.54	2.23	26.15	3
03	84.46	6.49	7.69	10.59	0.77	7.23	13.77	1.26	9+17	8-25	2.08	25.09	6
04	92.21	6.63	7.19	12.29	1.96	8.63	13.91	1.11	7.97	P.20	2.93	35.70	•
05	97.27	5.31	5.46	13.13	0.95	7.24	14.06	1.30	9.23	7.05	1-71	24.33	4
	105.30	7.85	7.48	15.11	1.09	7.24	14.42	1.70	8.94	6.6P	2+57	34.51	7
	110.0 \$	5.98	5.44	16.13	1.20	7.46	14.45	C.94	6.49	5.80	1.85	31.97	7
	116.14	6.43	5.54	10.41	1-87	10.15	15.02	1.56	16-29	5.38	1.79	33+25	6
-	122.11	7.52	6.15	19.81	1.39	7.10	15.33	1.71	7.92	5.2*	1.76	37.59	6
	127.61	7.45	5+84	22.37	1+94	P.70	15.91	1-22	8.39	5.42	2.16	3R.06	5
	131.28	6.48	4.93	23.32	1.75	7.*0	16.03	1.34	8.36	5.83	2+32	3974	6
	135.78	7.09	5.22	26+34	2.55	9.70	17=14	1.04	10.74	5.73	2.62	45.72	9
	141.78	7.73	5.45	29.34	2.69	9.16	17.72	1.70	9.57	5.11	1.77	34.60	e -
	146.93	9.28	6.32	32.61	2.30	7.05	18.48	2.44	14.39	5+13	2.29	44.63	3
	150.27	19.47	6.97	35.88	2.84	7.97	19+63	2.46	12.54	5.65	1-94	34.40	3
16	175.3F	89.56	51.06	42.62	5.46	6.94	21-06	1.31	6.17	7+13	F+10		3
17	158.90	7.27	4.50	•2.30	2.*6	6.76	21.35	2.14	9.67	5.79	2.75	47.62	3
	162.13	7.37	4.55	45.36	2.91	6.55	22.44	2++4	5.1A	6.09	2.61	42-81	4
	163.12	5-16	2.77	a=.91	2.03	£.17	22.57	1.39	A.82	5.91	1.97	34.00	3
	162.52	7.10	4.36	46.29	2+15	6.84	22.78	2.23	ን₊℃	≈ +62	2.53	44.48	11
- 54	163.11	6.27	3.91	49.72	2.92	7.92	23.97	2.75	9.37	6.50	3.42	52.66	7
	163.1P	9,75	5.36	\$1.05	4+61	7.91	24.26	n_ 33	10.44	6.99	4+09	58.45	P
- 34	163(7.12	4.31	44.60	2.96	6.(8	23.76	2.55	8=66	6-00	2.98	40.97	A
	167.91	7.15	4.39	F0-14	5.12	10.21	24.00	3+2P	13.46	6+67	3.92	55.79	7
	142.0(6.92	4 - 21	47.25	3.62	7.36	23.49	2-15	9+14	6.92	2.45	47.24	6
	162.52	5.61	3.46	40.34	3.49	7.34	22.90	1.91	8+32	e.64	3.34	59.21	4
	142.75	5.75	3.53	°C.21	5.66	11.28	23.42	3-11	13.28	7.07	4+22	**•70	•
	151.96	5.76	1.56	49.29	4.24	8.59	23.20	2.50	10.79	7.93	5.15	65.73	6

TABLE- 18(B)

	1	Height (c;	n)		Weight (k	(g)	Arm	Circumfe	Ceuce (C	m) Ski	nfold at	triceps	(
Aq: (yr:		\$.0.	C .V .	. x	S .0 .	. C.V.	x	\$.D.	C.V.	x	S.O.	C.V.	•
0 C	61.1*	7.54	12.32	5.96	1.72	29.32	12.36	1+59	12.86	e.15	2.59	31.72	4.
91	77443	5.18	7.35	7.45	1.57	21.00	12.57	1.23	9.75	7.03	2.26	32.20	• 3
<u>^2</u>	78.*7	6.74	9.59	9.37	1.62	17.33	13.16	1.18	8.95	P.44	2.07	24.46	4
33	96.30	91.54	95.06	10-48	4.36	41.56	14.05	3.71	25.34	9.22	P.2T	89.76	6
n e -	96.56	5.85	7.57	12.06	3.17	26.46	14-29	3.54	24.AG	•.44	8,37	88.73	7
64	97.83	7.26	7.42	13.22	1.73	13.05	14.6%	C*aë	6.56	7.84	2.25	2A.65	•
06	163.97	A.73	8.40	14+32	2.60	13.04	14.59	1.41	12-12	6.99	2.57	36.41	5
07	113.10	9-34	1.37	16.79	2+61	15.61	15.17	1.91	5.05	6+30	1.09	29.98	5
68	116.34	7.83	6.78	1P-44	2.69	14.59	15-21	1.62	16.6P	6+6A	2.92	43.71	7
19	123.28	10+17	8.25	21.00	2+91	13.84	15,99	1.+5	9.L7	6+2R	2.46	39+23	
19	120-75	9.93	1.16	22.72	5.R5	25.73	16.62	1.69	16.10	7.09	2.76	38.99	4
11	133.56	1.64	5.73	25.23	4+95	16.14	17.13	1.51	9.43	6.56	1,86	22.33	3
12	136.64	7.30	5.34	27+30	4+62	15.92	17.98	1.52	9+01	7.59	3.06	39%49	6
13	140.01	5.17	4.41	29.48	4.40	14.61	14.25	1.46	P.12	7.46	3.15	42.23	3
1.4	144.78	6.54	4.52	24.97	6.33	10-10	20.39	2.22	10.07	P-21	3+67	39-87	3
15	146.28	7.04	4+A1	\$6.00	7.01	21. EP	21+59	3.65	16.89	8.89	3+24	35.46	2
16	147-61	5.39	3-61	40.46	7+10	17.14	21.93	2.16	9.66	16.86	3.45	31.73	3
17	150.48	5.99	3.98	41.20	4.91	11.93	22+26	1.90	P.54	11.26	3.47	34.41	:
LA	159.71	6.56	4.42	41.16	4.58	11.14	22.39	1.97	A.33	1-+24	3.31	32.31	4
	152.65	5.79	3.73	45.15	4+28	9.47	23+31	1+11	4.76	12+42	3.32	26.74	1
	150.61	5.96	3.96	41.13	5.11	12.41	~1.8 P	2.19	10.03	°•46	3.50	37.01	11
-	150.6+	5+15	4.0A	40.59	4.93	12.12	71.94	2+30	10.46	9.19	3.47	36.96	11
	149.61	7-22	4.43	40+15	6.49	16.16	22.10	2.23	10.11	9.58	4.55	47+50	9
	149.52	6.73	4.50	41+36	6.88	16.44	22+43	3.78	16.94	10.07	4.65	46.29	9
	148.54	4.40	4 - 31	39-64	7.54	14.93	22.44	2.51	11+19	8+82	4.18	47+36	6
	148.81	7.26	4 ± 6 A	47.35	1.20	18.14	21+91	3.47	15.46	8.95	4.53	51.66	
	147.90	5.99	4.05	39.34		19.18	22.45	3.18	14.1*	°+#1		51+30	5
	147.9 <i>2</i> 147.21	6.35 5.80	4.29 3.74	42.79 39.67	-	23.61	22.90	3.30	14.41	10.52	5,10	49.42	2

TOTAL AUMBER OF RECORDS IN THE STATE = 13362

TABLE-19	(A)
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01 02 03 04 05 16 17 10 10 11 12 13	X 63.08 70.71 77.65 65.41 93.03 102.98 105.05 11.98 113.93 115.29 123.36 127.65	5.0. 7.56 3.88 4.89 7.99 6.45 4.89 5.03 5.76 6.19 7.00 6.44 5.66	C.V. 11.78 5.48 6.29 7.36 6.74 4.75 5.74 5.14 5.43 5.92 5.21	5.73 7.72 9.32 10.99 12.60 15.04 15.65 17.32 17.72 19.63	5. 0. 0.62 0.52 0.63 0.59 0.60 0.61 0.84 0.73 0.62 1.67	C.V. 10.88 6.75 6.79 5.40 4.74 4.05 5.30 4.19 3.47	x 11.54 12.08 12.42 12.93 13.70 14.04 13.86 14.27 14.05	5.0. 1.35 1.09 1.29 1.79 2.75 0.94 0.71 1.65	11.70 9.04 10.43 13.97 20.11 6.70 5.12 11.50	7.41 7.50 7.13 7.74 7.49 6.63 6.94 6.23	5.0 2.15 1.52 2.03 1.94 2.10 1.22 1.91 1.40	24.00 20.30 20.45 25.04 27.98 18.19 27.46 22.40	3 3 5 4 2 3 3
D0 B1 D2 D3 D4 D5 D6 D7 D6 D7 D8 D9 D9 D10 D11 D12 D13	70-71 77-65 65-41 93-03 102-96 105-05 111-98 113-93 116-29 123-36	3.88 4.89 7.99 6.45 4.5 5.03 5.76 6.19 7.09 6.44	5.48 6.29 9.36 6.74 5.74 5.14 5.43 5.92	7.72 9.32 10.99 12.60 15.04 15.85 17.32 17.72 19.63	0.52 0.63 0.59 0.60 0.84 0.84 0.73 0.62	6.75 6.79 5.40 4.74 4.05 5.30 4.19	12.0R 12.42 12.93 13.70 14.04 13.86 14.27	1+09 1-29 1-79 2-75 0+94 0+71 1-65	9.04 10-43 13.97 20.11 6.70 5.12 11.50	7.50 7.13 7.74 7.49 6.63 6.94 6.23	1.52 2.03 1.94 2.10 1.22 1.91 1.40	20.30 20.43 25.04 27.98 18.19 27.46	3 5 4 2 3
01 02 03 04 05 16 17 10 10 11 12 13	70-71 77-65 65-41 93-03 102-96 105-05 111-98 113-93 116-29 123-36	3.88 4.89 7.99 6.45 4.5 5.03 5.76 6.19 7.09 6.44	5.48 6.29 9.36 6.74 5.74 5.14 5.43 5.92	7.72 9.32 10.99 12.60 15.04 15.85 17.32 17.72 19.63	0.52 0.63 0.59 0.60 0.84 0.84 0.73 0.62	6.75 6.79 5.40 4.74 4.05 5.30 4.19	12.0R 12.42 12.93 13.70 14.04 13.86 14.27	1+09 1-29 1-79 2-75 0+94 0+71 1-65	9.04 10-43 13.97 20.11 6.70 5.12 11.50	7.50 7.13 7.74 7.49 6.63 6.94 6.23	2.03 1.94 2.10 1.22 1.91 1.40	28.45 25.04 27.98 18.19 27.46	5; 4; 2; 3;
02 03 04 05 10 10 10 10 10 11 11 11 11 11 11 11 11	77.65 85.41 93.03 102.96 105.05 111.98 113.93 115.29 123.36	4.89 7.99 6.45 4.79 5.03 5.76 6.19 7.09 6.44	6.29 9.36 6.94 4.75 5.74 5.14 5.43 5.92	9.32 10.99 12.60 15.85 17.32 17.72 19.63	0-63 0-59 0-60 C-61 0.84 0.73 0.62	6.79 5.40 4.74 4.05 5.30 4.19	12.42 12.43 13.70 14.04 13.46 14.27	1.29 1.79 2.75 0.94 0.71 1.65	10-43 13-97 20-11 6-70 5-12 11-50	7.74 7.49 6.63 6.94 6.23	1.94 2.10 1.22 1.91 1.40	25.04 27.98 18.19 27.46	4 4 2 3
03 04 05 16 17 18 19 10 11 12 12 13	85.41 93.03 102.96 105.05 111.98 113.93 115.29 123.36	7.99 6.45 4.59 5.03 5.76 6.19 7.09 6.44	9.36 6.94 4.75 5.74 5.14 5.43 5.92	10.99 12.60 15.04 15.85 17.32 17.72 19.63	0-59 0-60 C-61 0-84 0-73 0-62	5.40 4.74 4.05 5.30 4.19	12.43 13.70 14.04 13.46 14.27	1.79 2.75 0.94 0.71 1.65	13.97 20.11 6.70 5.12 11.50	7.49 6.63 6.94 6.23	2.10 1.22 1.91 1.40	27.98 18.19 27.46	4 2 3
14 15 16 17 18 19 19 10 11 12 13	93.03 102.96 105.05 11.98 113.93 115.29 123.36	4.99 5.03 5.76 6.19 7.09 6.44	6.94 4.75 5.74 5.14 5.43 5.92	12.60 15.04 15.85 17.32 17.72 19.63	0 - 60 C - 61 0 - 84 0 - 73 0 - 62	4-05 5.30 4.19	13.70 14.04 13.86 14.27	0.94 0.71 1.55	6.70 5.12 11.50	6.63 6.94 6.23	1.22 1.91 1.40	18-19 27-46	2 3
16 1 17 1 18 1 19 1 10 1 11 1 12 1 13 1	L05.0 f 11.98 L13.9 C L19.29 L23.56	5.03 5.76 6.19 7.09 6.44	5.74 5.14 5.43 5.92	15+04 15-85 17-32 17-72 19-63	0.84 0.73 0.62	5.30	13.86 14.27	0.71 1.65	5.12 11.50	6.94 6.23	1.91 1.40	27.46	3
17 1 19 1 10 1 10 1 11 1 12 1 13 1	11.98 113.92 119.29 123.36	5.76 6.19 7.09 6.44	5.14 5.43 5.92	17.32 17.72 19.63	0.73 0.62	4+19	14.27	1.65	11.5e	6.23	1.40		
10 10 10 11 12 13	13.92	6.19 7.09 6.44	5.43	17.72 19.63	0.62							22.43	1
10 10 10 11 12 13	13.92	7.09 6.44	5.43	19.63		3.47	14.05						
10 1 11 1 12 1 13 1	23.56	6.44			1.67			C.95	6.76	6.06	1.54	27.03	3
1 1 12 1 13 1			5.21			8.51	14.70	1.53	16.39	6.69	5.48	61.87	
2 1	27-85	# 44		71-17	1-34	6.34	15.97	1.26	B . 34	5.95	1.45	24.55	6
13 1		2.44	4-43	23.30	1-11	4.76	15-63	1+46	9.36	6.07	1.70	27.99	•
	33.69	6.17	4.61	26+54	1.22	4.64	16.33	1.51	9.23	ó.¶7	2.35	34.26	
	39.23	T+42	5.33	24.36	1-63	5.56	17+10	1.66	9.73	6.42	2.37	36.95	4
14 1	42.98	6.61	4.63	31.10	1.85	5.95	17.16	1.81	10.57	6.45	2.83	43+32	3
5 1	51.64	7.26	4.78	36.20	2.43	6.71	18.73	2.1*	11.44	6.12	2.09	34-12	2
6 1	56-34	7.51	4.80	40.43	2.P2	6.98	19-46	1.83	9.38	5.59	1.43	34.50	•
7 1	60.19	4+71	2.94	43.97	1-68	3.82	20.22	1.56	7.79	5.18	1.40	27.05	2
6 1	.63•0 ž	8.49	5.21	45.63	2.21	4.73	21.14	1.37	6.46	5.37	1.54	28.59	3
9 1	67.51	8.54	5.32	45.36	1.68	3.70	21.21	2.11	9.97	6.00	3.11	51.89	1
24 1	64 - 6 2	5.85	3.57	48.36	2-46	5.09	22.27	1.81	8+11	5.33	2.16	38.54	7
29 1	65.83	7.24	4.37	49.69	1.67	3.36	22.92	1.58	7.18	4.95	1.78	35.87	4
34 1	.65.64	5.79	3.50	52.96	3.28	6.19	23.24	2.63	11-33	*.*1	3.15	53.29	1
-3º 1	64.22	6.64	4.04	51.71	2.80	5.42	23.12	1.93	8+35	5.24	2-11	49.92	6
44 1	65.22	5.40	3.27	54-14	3-88	7.16	23.77	2.80	11.78	6+81	3.92	57.59	5
49 1	64.30	5.62	3+42	53.58	2.81	5.24	23.75	2+89	12.45	6.10	3-19	52.27	3
-54 10	64.58	5.74	3.49	53.72	4.40	7.44	23.21	3.02	13.00	6.59	3+29	49.91	3
59 10	.64 .2 1	7.93	4.83 3.58	52.16	2.76	5.29	22.95	2.55	11-10 11-21	7.00 6.65	3.36 3.34	47.94 53.18	2

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TABLE-19 (B)

NNMB - GUJARAT - MEAN AHTHROPOMETRIC MEASUREMENTS BY ACE (FEMALES) - 19 79

		Height (cm)	Ve	ight (kg)		Ar p Ci	rcunfer	ence (cm)	Skin	fold at	triceps (a	HEI)
Age (yrs)	X	S.D.	c.v.	Ŧ	S.D.	C.V.	x	\$.0.	C.V.	. .	5.0.	C.V.	
50	61.76	5.20	A.42	5.64	1.44	25.52	11.43	1.43	12.53	7.16	1.91	26.65	A
01	70.3#	4.49	6.39	7.29	1.49	20.38	11.47	1.38	12-03	7.34	2.32	31.63	32
62	76.83	5.20	6.76	9-27	1.33	14.38	12.55	0.97	7.72	7.88	1.56	19-84	
03	86.94	7.00	8.15	11.47	1.99	17.43	13.20	P.95	7.18	P. 52	2.10	24.61	25
04	94.73	14.67	15.40	12.32	2.72	16.41	13.89	2.72	19.56	R.17	2+11	25.83	40
15	99.16	6.79	6.85	13.73	1.59	11.61	13.74	0.98	7.12	7.90	1.99	25.18	25
46	162.08	6.95	6.80	14.32	1.97	13.75	13-65	1-14	8.35	6.87	1.82	26.14	31
07	107.03	6.15	5.64	15+47	2.23	13.57	14.24	1.11	7.50	6.93	1.77	25-62	21
28	113.00	F . 90	6.16	17.84	2.04	11.41	,14.32	0.95	6.64	6.71	1.99	29.61	31
99	119.70	7.44	6+22	19.78	3.71	18.78	15.13	1.16	7.69	6.62	1.74	26.29	2
10	122.2€	474	3.88	20.69	2.73	13.20	15.51	2.44	15.73	6.55	1.93	29.46	31
11	131.47	7.55	5.02	25-52	4.03	14.21	16.88	1.57	9.28	7.14	2.22	308	4
12	132.65	6.86	5-17	24.78	4.27	17.24	16.20	1.31	8.05 .	6.85	1.73	25.18	2
13	136.8€	8.74	6.37	28.14	4.53	16.12	17.21	1.67	9.72	7.68	2-34	31.55	34
14	143.00	8.50	5.94	32.13	5.10	15.88	18.12	1.63	9.01	7.13	1.71	24.03	23
15	148.19	5.48	3.70	36.88	5.74	15.57	18.74	2.07	11.64	7.05	2.66	37.66	19
16	149.96	6.45	4.30	38.61	4.99	12.92	19.64	1.43	7.28	7.67	2.30	30.01	1
17	151-34	4.87	3.22	41.63	6-14	14.74	20.40	2.21	10.84	8.83	3.15	35.64	1
18	152.44	6.57	4.31	43.28	6.98	16-13	20.91	1.96	9.40	9.39	3.35	35.71	2
19	153.77	4+01	2.61	41.95	9.93	23-68	20.77	3.44	16.56	10.33	6.53	63.21	
0-24	153.66	4.90	1.19	47.21	6-08	12.89	22.21	2.27	19.23	10.77	3.81	34.38	7.
5-29	153.22	4.89	3-19	44.35	5.75	12.07	21.44	2.09	9.75	8.87	3.95	44.51	71
9-34	152.95	4.95	3.24	46.41	8.74	18. 24	22.01	2.97	13.47	9.56	4.99	52.68	7
5-39	153.1€	4.97	3-90	46.67	9-62	20-51	22.44	3.08	13.71	10.13	5.20	51.38	5
1-44	151.85	4.56	4.32	46.84	10-37	22-13	22.54	3.25		10.20	6.53	64,02	
-49	152.93	5+15	3.39	44.68	7.78	17.41	21.92	2.96	13.51	R.60	5.91	58.24	2
-54	149.94	8.85	5.90	43.97	8.50	19.33	21.71	2.99	13.79	9.32	4.76	53-16	3
	149.71	5.67	3.79	46.80	10.54	22.52	22.96	3.21	13.99,		7.38	66.24	2:
	148.75	5.36	3.62	41.58	7.54	18-14	21.90	2.64	12.56	7.91	4.18	52.80	

TOTAL NUMBER OF RECORDS IN THE STATE = 15450

TABLE-20	(A)
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NNMB - MADHYA PRADESH - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES) - 1979 32

	н	eight (c	•)	Vel	ght (kg)		Are CI	to unfere	nce (cm)	Skin	fold at	tricept (em)	, H
A94 (775)		5.D.	<u> </u>	×		C.V.	X	\$.D.	£.V.	X	5.0.	C.V.	
00	56.69	4.54	6.01	5.07	0.30	5.84	11.42	1,34	11.73	7.22	2.17	30.00	9
01	70.42	12.33	17-51	6.32	0-23	3.65	12.11	0.78	6.48	7.25	1.83	25.27	
82	76.34	7.50	7.82	9.36	0.64	6.80	13.05	1.73	13.27	7.75	2.77	35.71	12
03	67.31	6.93	7.94	11.62	0.63	7.14	13.30	2.20	16.52	7.94	2.04	25+71	18
04	89-61	8.13	9.07	11.62	0.55	4.65	13.67	1.36	7.76	8.88	2.03	31.01	17
05	78.6:	7.15	7.25	13.36	0.96	T.22	13.44	1.41	10.15	7.60	2+16	28.45	50
96	105.56	8.32	7.88	16.00	1.02	6.36	13.96	0.84	6.00	6.64	2.53	38.09	14
07	111.52	7.60	6.91	17.65	0.90	5.07	14.24	1.20	8+39	6.42	1-69	26.13	12
80	120.57	6.48	5.37	20.15	0.40	3. 98	16+11	3.06	18.99	6.64	1.46	28.07	14
07	122.30	11.54	9.68	10.61	0.76	4.11	14.59	1.51	10.33	5.71	1.11	19.47	7
10	125.25	8,77	7.00	22.04	0.94	4.25	15.50	1.25	9.06	5.64	1.39	24.68	14
11	134.44	6.37	4.74	24.64	1.03	4.40	17.39	3.17	14.25	5.38	1.05	19.73	
12	134.71	6.85	5.09	26.15	1.24	4.76	16.95	2.07	12+19	7.47	2.22	40.47	17
13	141.66	17.05	12.03	31.64	2.10	6.65	14.6*	2.32	12-44	A. 61	2.07	24.11	5
14	147.50	9.42	6.39	35.52	1.90	5.36	19.54	2.75	14.07	6.67	2.24	33.54	9
15	155.59	10.51	6.63	39.63	1+62	4.19	20.51	1.56	7.61	5.43	1.51	27.85	7
16	155.89	5.87	3.77	41.87	2.33	5.57	20.97	2.94	14-14	7.29	2.98	40.96	. 7
17	159.70	5.93	4.34	44-31	1.49	3.37	21.69	1.60	7.76	6.56	1.88	28.65	· * •
10	162.36	5.40	3.32	47. 74	1.53	3.23	23.2*	1.50	6.45	8.00	3.08	34.53	5
19	162.14	3.28	2.02	47.70	0.95	1.99	23.38	1.39	5.96	8.40	3.74	45.02	3
	162.58	6.72	4.13	48.42	2.12	4.37	23.06	2.73	12.27	6.68	2.30	34.50	25
	162.68	7.81	4.80	49.61	2.22	4.45	24.43	1.44	5.90	A. 30	3.14	37.61	23
	164.46	7.74	4.71	49.30	2.33	4.73	24.31	1.00	7.71	9.38	4.97	53.03	21
	162.45	6-12	3.77	53.25	1.99	3.74	24.46	2.41	9.85	9.00	4.43	49.19	21
	163.60	5.31	3.24	50.84	2.36	5. (2	24.30	2.47	10.16	8.90	5.23	56.82	29
	163.86	4.58	2.40	50.76	2.41	4.75	24.25	2.58	10.65	8.39	3.22	36.39	18
	163.97	5.66	3.45	51.45	2.94	5.53	24.23	1.92	7.91	R.60	3.60	41.91	20
	166.47	7.23	4.34	47.21	1.64	3.47	22.40	2.46	16.49	6.89	3.92	56.89	- 9
	164.59	6.48	4.23	46.46	3.75	R. 56	22.17	2.43	13.20	7.00	2.84	40.59	29

TABLE-20 (B)

NNMB - MADHY PRADESH - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1979

		leight (d	cn)	Ųe	ight (kg)		Arm Ci	tounfer	ence (cm)	Skir	nfolc at	triceps (me	· ·
Age (yts)	¥	3.0.	c.v.	x	• ۵ •	C.V.	x	\$.0.	C.V.	, x	\$.0.	C.V.	١
80	56.90	5.12	9.00	3.81	r.87	22.59	10.60	0.73	6.89	5.75	0.96	16.65	•••••
61	71.8¢	4.46	6.21	7.77	1.72	22.12	12-31	1.78	14.43	A.14	2.54	31.25	
92	78.85	8.75	11-14	8.89	1.91	21.53	13.22	2.62	19.85	8.46	2.40	28.39	1
03	85.78	11.03	12.46	10.52	3.32	31.59	13.88	2.14	15.42	8.55	3.23	37.83	2
94	66.75	4.45	5.01	11.31	1-22	10.02	13.57	1.01	7.43	7.47	1+84	25.24	ī
05	98.C C	7.42	۹.61	13.12	2-34	17.85	13.09	1.54	12.08	7.08	1-51	21.25	1
06 1	104.52	6.78	6.25	15.88	2-07	13.(4	14-38	0.89	6.26	7.23	1.60	22.16	2
07 1	116-27	12.63	10.87	18.10	2+00	11.07	15.07	1,09	7.23	6.38	1+41	27.08	-
08 1	117.05	7.12	6.18	18.53	3-23	17.42	15-39	1.70	11-16	7.42	1.74	23.44	1
09 1	26.29	6.19	5.45	23-08	3.55	15.44	16.48	1.03	10.75	7.90	1.97	24.93	ī
10 1	126.4E	9.50	7.51	23.14	6.35	27.43	17-51	3.25	18.54	6.92	2.61	37.73	ī
11 1	132.33	5.90	4.47	24.P7	4.96	20.21	17.47	2.10	12.03	9.33	2.07	22.30	-
12 1	134.1€	4.31	3-22	27.35	4.46	16.31	17-15	0.97	5.07	7.73	2-10	36.18	1
13 1	140-33	10.92	7.75	34.24	5.39	15.74	20.08	1.96	9.75	A.5A	2.27	26.50	ī
24 1	47.75	6.11	4.13	36.46	6.15	16.76	20+92	1.86	9-27	9.50	2.73	28.69	-
15 1	46-61	10.50	7.16	38.79	9.63	24.05	20.52	3.26	15.87	9.25	3.74	40.40	1
16 1	48.31	5.36	3.62	41-97	3.88	9.27	22.07	1.63	7.37	A. 46	2.17	24.76	-
17 1	52.05	3.79	2.43	42.57	3.94	9.25	23+65	1.05	4.55	11.00	2.16	16.62	
18 1	50.94	7.66	5.07	44.28	8-61	19-45	22.33	1.42	P+17	10.44	3.54	33.89	
	58.87	6.13	4.30	46.30	6.75	14.57	23.12	1.04	4.51	10.00	4.83	44.30	
20-24 1		5.44	3-67	43.29	9.77	22. *7	22.42	2.22	9.92	9.82	3.27	33.29	3
25-29 1	51.69	6.67	4.40	43.85	10.75	24.51	22-41	3.29	14.67	9.86	4.8*	49.92	2
10-34 1	49.56	4.53	3.03	44.00	7.17	16.29	22.45	2.30	10.03	9.89	4.15	41.93	` 7
15-39 1	49.95	5.44	3.63	42.60	7.67	18.00	22.92	2.97	12.96	A.59	4.10	47.72	5
8-44 1	49.56	5.69	3.81	42.93	7.79	18.15	23+55	2.17	9.23	9.60	3.06	31.40	ž
5-49 L	48.84	6.21	4+17	43.07	6.11	14.19	23.45	2.30	9.79	11.34	7.51	66+12	ī
1-54 1	48.19	5.43	3-66	45.19		17+65	24.44	2.48	12.21	10.65	7.21	67.86	i
5-59 1		9.99	6.63	46.30	12-18	26.31	23.04	2.44		14.75	6.67	62.05	•
	45.57	6.13	4.21	37.07	6 - 22	16.41	21.49	2.48	11.55	6.75	1.99	29.53	2

TABLE-21	(A)
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_	H	eight (c		U e U	ight (kg)		Arm Ci	rcunfer	ence (cm)	Sk1a	nfold et	triceps (na) N
Aqe (y <u>r</u> s)	X	50.	C.V.	×	<u>\$.0.</u>	<u>c.v.</u>	<u>x</u>	5.0.	C.V.	x	\$.D.	C .V.	
00	63.79	5.51	8.63	6.04	0.52	8.65	12.79	1.23	9.63	R.30	1.64	19+72	10
01	73.24	6.74	9.15	11.56	10.38	89.81	14.23	4.44	31.22	11-28	17-45	*****	23
02	81.91	5.40	7.81	9.76	0.=7	9.93	13+24	1-18	8.90	7.26	2.21	30.39	19
03	86.88	7.91	9.10	10.84	1+54	14.21	13.92	1.05	7+55	7.44	2.36	31.40	45
04	92.03	6.49	6.95	11.96	1.19	10.03	14.24	0.92	6.47	6.97	1.71	24+58	33
95	98.72	7.74	7.84	13.71	1.33	9.70	14.44	1.18	8.21	6.67	2+19	32+83	31
06	106.24	5.56	5.23	15-54	1.37	8.84	14.69	0.97	6.58	6.10	2.04	33.37	40
97	113.57	9.53	8.39	17.78	2.**0	15.73	14.89	1.50	10-06	6.26	2.33	37.25	35
60	119+6€	8.80	7.36	19-33	2.25	11.62	15.26	1.18	7.76	6.42	2.39	37.32	36
07	120.80	6.96	5.76	20.57	2.43	11.80	15+52	1.24	7.98	5.62	1.36	24-20	26
10	127.13	7.99	6.29	23.13	3.01	13.00	16.13	1.41	8.76	6.10	2.26	37.09	40
	135-57	6.25	4.61	27.90	7.23	25.90	10.23	6.55	35.92	7.60	10.34	****	29
12	137-94	11.26	8.16	27.77	4.20	15+14	17.76	1.71	9+64	5.87	1.82	33.99	
13	140.29	11-37	8.11	29.48	3.88	13-18	18-04	1.47	9-13	5.65	1.59	27.96	17
14	147.8 E	9.52	6.44	33.90	5.69	16.78	19.13	2.25	11.76	5.97	2.24	37.59	31
15	148.24	8-50	5-73	34-24	4+52	13.19	19.69	2.02	10.28	S+26	1.91	36.30	19
16	153.89	8.19	5.32	40.44	6.02	14.90	20.82	2.39	11.46	6.77	2-23	33.15	22
17	159.30	6.98	4.38	43.38	2.60	5.99	21+69	1.70	7.85	5.67	1.60	31.61	9
18	162.77	6.64	4.08	47.03	5.65	12.44	22.58	2.75	12.01	6-14	1.93	31.53	22
19	162.52	7.23	4.45	47.97	3.61	7.54	23+64	1.54	6.53	5.63	1.96	34.88	16
0-24	163.01	7.02	4.31	49.12	5.51	11.23	24.03	1.98	8.26	6.39	3.12	48.78	77
5-29	163.82	6.60	4.03	50.35	5.57	11.06	24.32	2.29	9.41	6.58	2.54	38.54	53
0-34	162.72	7.72	4.75	51.05	6.75	13.22	24.84	2.41	9.72	6.45	3.09	47.87	51
15-39	163.97	6.15	3-75	22-22	5.96	11.42	25.00	2.23	8.93	7.36	3.60	48.95	1 50
	163.02	5.72	3.51	49.54	7.02	14+18	24-32	2.15	8.83	6.75	3.59	53-18	51
5~49	161-10	6.33	3.93	48.96	6.09	12+43	24+32	2.63	10.80	6.38	3.49	54-62	52
0~54	162+85	5.93	3.64	51.18	6.91	13.51	24-61	2.62	16.64	6.21	2.40	38.63	39
	162.71	6.03	3.70	49.29	4.79	9.72	24-31	1.91	7.86	6.43	1.99	31.00	30
>=67	161.48	6.21	3.84	49.61	7.82	15.77	23.81	2469	11.30	7.57	3.77	49.78	61

NNMB - ORTSSA -	MEAN	ANTHROPOMETRIC	MEASIBEMENTS	ΒY	AGE	(MALES)	- 1979

TABLE-21 (8)

NNMB- ORISSA - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1979

Age	H	eight (c	n)	Veig	ht (kg)	. +	Arm Ci	rc un fer e	nce (ca)	Skinf	old at	tricepe (m	a)
	X	5.0.	c.v.	x	\$.0.	C.V.	x	s.a.	C.V.		\$.D.	C.V.	N
00	62.73	6.98	11.13	6.33	1.98	31.28	12.00	1.59	13.14	8.18	2.32	28.31	11
01	72.66	9.73	13.39	7.76	1.91	24.63	12.79	1.49	15.60	7.00	1.75	24.98	18
02	76.22	5-39	7.08	8.48	2.74	32.33	12.52	1.59	12.66	. 6.75	1.86	27.63	12
03	86.83	6.07	6.99	10.69	1.72	16-10	13.79	1-11	8.05	7.47	1.85	24.75	, 32
04	92.4 E	6.60	7.15	11.67	2.06	17.66	14.32	1.11	7.76	7.58	2.17	28.58	<u> </u>
05	98.64	7.51	7.61	13.34	2.50	18.76	14.54	1.19	8.17	7.28	1.79	24.61	29
96	106.5E	9.29	8.70	15.72	3.15	20.02	14.49	0.93	6.43	6.62	2+18	32.69	37
07	114.42	8.75	7.65	17.38	3.59	20.68	14.75	1.27	8.61	5.86	1-43	31-23	42
08	117.71	9.05	7.69	19.18	4.15	21.63	15.42	1-46	9.48	5.93	1.65	27.85	+3
64	121.44	9.35	7.70	20.30	3-84	18.93	16.28	1.77	10.89	6-60	2.50	37.88	25
10	129.5E	7.84	6.05	23.54	4-66		.16-66	1.73	10.38	6.71	2.90	41-71	29
11	135-10	9-29	6.87	26.94	5.44	20.17	17.70	1.68	9.47	7.84	3.29	41.93	25
12	136.32	7.56	5-55	26.81	5.30	17.76	17.56	2.30	13-11	7.34	3.26	44.38	32
13	145.35	8.22	5-65	35-37	7.55	21+34	20+35	2.51	12-32	-14,	4+17	45.61	22
14	146.95	7.95	5.4L	36.41 .	7.11	19.52	20-20	2+63	13.03	9.67	4.71	48.49	27
15	146-21	4.61	3-16	3796	6.07	15.99	21.17	2.06	9.75	9-20	4-71	51.18	25
16	147.30	10.01	6.90	38-19	6.62	17.35	20.95	1.90	9.09	9_58	4-13	43.07	24
17	150.78	7.90	5.24	43.32	5.12	11.62	22.64	1.91	8.42	11.98	4.78	43.18	26
18	151.14	5.18	3.43	44.37	5.86	13-22	22.95	1-93	8.45	11.09	4.12	37.18	23
19	155.30	9.03	5.81	40-12	3.25	8.09'	21.44	1.63	7.59	8.40	2.30	27.41	5
0-24	150.52	5.87	3.90	43.83	6-21	14-17	22.69	2.14	9.43	10.08	5.01	49.77	61
5-29	L50.71	5.92	3.93	42.95	5.90	13.74	22.24	2.11	9.45	8.77	3.52	40.15	65
C-34	149.64	6.16	4-11	42+02	5.29	12.58	22.50	1.65	8-23	9+68	4.57	47+17	56
5-39	149.97	5.83	3.89	42.02	6.70	15.95	22.39	2.16	9.64	 31	4.97	53.37	72
0-44	151.0:	5.85	3-#7	41.79	6.89	16.48	22.71	2.00	8-62	9.15	4.23	46.24	61
5-49	150.24	6.53	4.35	43-12	7.19	16-67	23.12	2.35	10-16	9.23	4.03	43.62	47
0-54	149.15	1.52	5.04	43.72	9.46	21.64	23.85	3.04	12-73	11.11	6.00	54.04	28
5-59	148.05	6.69	4.52	39.07	3.#7	9.90	22.63	2.57	11.37	9,36	4.89	52.24	25
>=6n	146.6€	5.79	3.95	38-22	6.62	17.31	21.71	2.75	12.67	7.65	3.26	42.41	53

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TOTAL NUMBER OF RECORDS IN THE STATE = 3788

TABLE-22	(A)
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		NNMB 1979	-WEST	BENGAL -	- MEAN A	N'I'HROP	OMETRIC	MEASURE	MENTS BY		(MALES)		34
		leight (c	•)	Vei	ght (kg)		Arm Ci	rcunfer	nce (ca)	Skia	feld at	triceps (1	M)
Ag = (y75)		5.0.	c.v.	×_	S.O.	C.V.	X	5.0.	C.V.	×	\$.0.	C.V.	
9C	63.32	5.17	8.16	6.06	0.47	7.70	11-57	1.20	10.35	4.75	1.01	20.44	2
01	73.58	4.29	5.83	7,98	0.40	5.07	12+11	1-17	9.65	4. *8	1.13	27.76	2
02	87.4 2	4-16	5.34	7.94	0.49	4.94	12.59	0.99	7.45	5.26	1.97	29.67	3
03	88.81	5.27	5.93	11.95	2.09	17.47	12.90	0.83	6.45	5.03	0.90	17.78	3-
24	96.42	4.50	4.66	12.48	0.54	4.19	13.29	1.02	7.71	4.82	1.07	22.27	- 3
05	102.11	4.94	4.84	15.47	2.25		13.34	1.14	8.53	4.31	0.75	17.39	1
05	104.04	5.16	4.96	14.78	0.63		12.53	0.88	6.54	4.96	0.68	16-87	2
07	114.75	4.40	3.84	17+38	0.48	2.77	13.80	1.35	9.81	3.85	A.67	17-37	1
08	115.98	5.67	4.89	18.09	0.92	5.10	14.47	1.76	12.1#	3.82	0.46	12.63	3
04	121.94	8.59	7.04	20.50	1.20	5.86	14.65	1.52	10.36	3.70	0.59	15.95	2
10	124.37	5.89	4.73	21.12	0.91	4.29	15.02	1.09	7.27	3. *6	0.62	15.95	2
	127.88	5.62	4.40	22.29	1.16	5.21	15.65	1.05	6.91	3.68	0.60	17456	2
	133.12	6.57	5.01	24.55	1.03	4.21	15.87	0.89	5.62	3.97	0.70	17.51	1
	138.15	6.08	4.40	28.51	1.25	4.39	16.R5	1.21	7.20	3.97	0.70	17-54	2
	144.2€	9.52	6.60	30.66	1.83	5.95	17.23	1.39	8.07	4.21	0.69	16.34	1
	152.02	9.45	6.21	15.95	1.42	3.94	19.05	1.35	7.11	4.25	D.58	13.74	1
	153.45	8.91	5.91	17.53	2.06	5.48	20-03	2.11	10.52	4.37	1.19	27.19	1
	157.28	10.45	6.66	42.01	2.47	5.89	21.16	2.13	10.06	4.33	1.01	23-41	1
	164.0 2	6.82	4.16	43.95	1.12	2.54	21.25	1.91	6.98	3.95	0.61	15.44	_ 1
19	163.04	6.66		43.99	1.13	2.57	21.12	1.36	6.42	4.19	P.53	12.66	•
-24	161.99	6+12		47.55	2.02	4.25	23.03	1.78	7.75	4.58	0.80	17-54	- 4
-29	163.09	5.40	3.31	49.04	2+10	4.29	23.27	1.93	8.29	4.54	1.67	36.89	2
- 34	163.48	4.21	5.04	44.57	1.67	3.44	22.95	2.01	R.76	3.88	°.65	16 .66	1
- 39	161-8 C	5.14	3.18	47.98	1.69	3.51	23.24	1.44	6.20	4.61	1.20	26-14	3
	161.92	7.24	4.49	47.31	1.54	3.25	22.93	1.55	6.75	4.67	1.22	26.0A	3
	161.0E	5.22	3.24	45.97	2.63	4.41	22.74	2.23	9.79	4.23	1.64	38-67	2
	163.41	7.34	4.49	45.93	1.61	5.50	22.07	1.72	7.40	4-58	1.25	27.23	2
	163.01	4.42	2.71	50.32	2.70	5.37	23.45	2.20	9.39	5.29	2.29	43.29	1
	157.72	12.30	7.40	42.76	1.75	4.16	21.32	1.98	9.30	4.30	0.91	21-12	-

TABLE-22 (B)

Age	Hei	ght (am)	-	Weight	(kg)	Ą.rm	Circum	ference ((cm)	Skinfol	d at tri	ceps (mm)	
(778)	X	5.0.	C.V.	X	S.D.	c.v. x	5	•0•	C.V.	Ŧ	\$ "D .	C.V.	•
00	62.7	4 4.5	5 7.27	5.90	9.0	3 13.69	11.52	0.79	6.*5	5.08	1.00	19.60	1
01	73.5	C 5.06	6.88	7.67	1.3			0.97	8.26		0.99	21.36	
02	80.91	7 3.51	4.76	9.20	0.92		12.40	0.62	5.03		0.00	15.05	
03	8R.1	3.29	3.74	10.99	1.95	9 9.96	12.76	0_87	6.P2		1.26	23.79	2
04			4.92	11+91	1.51	9 13.39	13.02	1-14	8.74	5.53	1.23	22.26	1
05			F 8.51	13-25	1.46	11-14	13.3*	0.69	5.15	4.69	× 1.79	16.92	1
06		9 5.83	\$ 5.55	14.65	1.*3	5 12-47	13.41	9.82	6+12	4.39	1.01	23.05	2
07				16.61	1+36	8 #.29	13+99	1.05	7.54	4.23	4.78	10.33	1
05				17.73	1.79		14.35	10.83	5.90	4.00	0.67	16.77	2
49				18.89	1.51	7.98	14-80	1+77	7.21	4.12	0.85	20.54	1
1*				20.63	2.72	2 13-20	15+02	1.23	8-17	3.93	9.73	14.57	2
11				23.69	3.85		15.31	2-70	17_64	4.34	0.77	17.69	1
12				26.79	5+06		16.71	1.44	8.59	4.28	0.49	,11-30	2
13	1+1.80			31.75	5.53		17.93	1.78	9.91		1.16	21190	1
14	146.08			34+65	6.57		18+98	2+55	10.77		2.53	41.66	1
15	144.23			33+74	7.22		19.19	2+46	12.80		2.01	36.38	1
16	150.84	•		41+39	5.86		21.37	2-21	10.34	7.94	3.91	49+27	1
	151.34			41.83	5.94		21.94	1.69	7.71	7.50	2.48	33.11	1
	151.26	. –		42.66	3.36			1.21	5.63	6.44	1.24	19.18	
19	146.27	2.57		37.93	5.8A			1.63	9.14	6.33	2.16	34+11	
	150.76			40.47	5.28		20.56	1.93	8-91		1.68	29.75	3
	151.10			43.38	7.51		21.73	2.67	12-29		3.90	56.47	3
	149.05			41.88	6.09		21+45	1.99	9.26		1.85	39.93	3
	149.39			19.32	4.23	-	21.07	1.41	6.67		1.24	24.55	3
	149.87	•		41+15	4.98		22+01	1.99	9.04		2.26	33-78	12
	149.85			39.62	7.62		21.39	1.96	9.17		1.39	24.24	1
	151.40			17.57	6.74	-	20.44	2.49	12.21		1.65	33.30	1
	151.00			38.72	5.01	-		1+45	7.00		1.80	33.43	
>=60	145.07	3.25	2.24	37.42	4.10	11.22	21.37	2-17	10-18	5-17	1.47	28.47	

	NN	MB-uttar	PRADESH	- MEAN	anthrOpOM	ETRIC ME	EASUREME	NTS AGE	(Males) -	1979			35
	*	leight (ca)		lght (kg)	****	Are Ci	reunfor	ence (ca)	Ski	nfold et	tricept	(
Age (уг5)	<u> </u>	S.D.	C.V.	<u> </u>	5 .D .	C.V.	x	5.0.	C.V.	Ŧ	5.0.	C.V.	•
00	62.32	4.76	7-64	6.17	0.79	12.76	11+98	1.30	10.88	7.21	1.93	26.79	56
01	71-71	3.91	5.32	7.86	0.99	12.56'	12-21	1.30	10-65	6.83	1.96	28.67	76
92	81.64	3-54	4.46	10.06	1.23	12.21	12-94	1.19	9.1B	7.01	1.94	27.67	88
03	89.16	2.93	3.17	12.03	0.80	6.63	13.56	1.14	8.43	6.73	1.72	25.64	68
04	96.29	4.45	4.62	13.53	6.83	6-13	13.91	0.82	5.93	6+ 51	1.55	21.90	89
05	102.23	2.69	2.63	14.57	0.40	4.12	14.14	0.88	6.25	6-01	1.10	16.28	73
°6	108.73	8.01	7.37	15.92	0.53	3.30	14.53	Ç.89	6.09	5.68	1.07	10,01	62
07	113.30	2.33	2.05	17.77	0.71	4.02	15-16	1+01	6.69	5.79	1.36	23.43	62
8 0	119.24	2.39	2.00	19-62	0.40	4.61	15.61	0_99	6.26	5-38	1.17	21.76	68
19	123.94	2.43	1.96	21.50	1.20	5.56	15-93	1.02	6+43	5-15	1.11	21.61	63
10	126.74	5+61	4.42	22.69	1.26	5.54	16.07	1.13	7.03	5.52	1.11	20.13	52
11	132.08	4.43	3.35	25.99	2.20	8.76	16.72	1.31	7.84	5.70	1.40	24-56	65
12	138.26	3.32	2.40	28.46	1.75	6.15	17.30	1.09	6.30	5.74	1-15	19.95	113
13	144.94	3.04	2.10	32.45	1.29	3.95	17.92	1_^6	5.92	5.69	0.98	15.48	52
19	150-10	2.94	1.96	35.51	1.63	4+59	18.26	1.30	7.55	5.48	1.10	20.02	57
15	153.20	6.89	4.50	19.92	2.64	6.77	19.30	1.89	9.79	5.47	1.04	18.94	62
16	157-80	4.26	2.70	42.76	3.08	7.21	20.87	2.27	10.86	5.36	C.80	14.86	61
17	159.40	6.07	3.81	44.84	2.48	5.54	21.79	2.04	9+38	5.45	9-91	16+60	43
18	161.13.	5.16	3.20	46.54	2.75	5.89	22.89	1.04	8.06	5.29	1-26	23.86	P3
19	162.76	3-67	2.26	47.49	1.86	3.91	23.25	1.46	6+27	4.86	0.91	18.76	33
26-24	163.07	5.41	3.32	49-03	2.58	5.27	23.76	1.70	7.14	5.09	6.99	39+47	146
	162.32	5.44	3.35	*C-82	3.22	6.34	24.49	2.20	8.98	5-16	1-43	27.64	72
	162.36	5.65	3.48	44.20	3.44	7.00	23.92	2+18	9.13	4.89	1-32	26.96	68
	162-05	6-16	3.80	50+25	3.08	7.92	24.47	2.14	8.74	5.17	1.82	35+27	94
9-44	162.21	6.22	3-84	50.29	3-21	6. 30	24.19	2.09	8-62	5.32	2+26	42-37	68
5-49	162.1 5	6.62	4.05	50.S1	3.63	7.25	24-07	2.17	9-02	5.36	1.79	33.42	61
n-54	161.82	6.63	4.10	49.62	3.76	7.59	24.06	2.14	9.04	5.29	2+21	41.74	40
	158.28	22.95	14.50	47.60		10.27	22.82	4.15	18+20	5.34	3.98	57.69	45
	161-12	6.45	4.00	47.79	5.01	10.45	22.72	3.15	13.86	5-12	2.61	59.93	P1

TABLE-23 (A)

NNMB-UTTAR PRADESH - MEAN ANTHROPOMETRIC MEASUREMENTS AGE (MALES) - 1979

TABLE-23 (B) NNMB-UTTAR PRADESH - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1979

Age	H	eight (c	n)	Vei	ght (kg)		Arm Ci	rcunfere	nce (cm)	Skin	fold at	tricops (m	
(yrs)	x	5.0.	C.V.	x	S.D.	C.V.	x	\$.0.	C.V.	X	5.0.	C.V.	N
00	67.42	4.44	7.36	4.A7	1.46	30.05	10.91	1.27	11.62	5.79	1.38	23.81	36
01	72.41	9.34	5.99	7.06	1.68	21.31	12.29	1.09	8.86	6.63	1.81	27.25	56
02	80.32	5.95	7-40	9.57	1.96	20.47	12-67	1.34	10.58	6.97	2.CR	29.86	- 16
03	87.27	3.01	3.45	11.54	1.26	12.95	13-21	8.99	7.49	7.20	2.20	10.59	8
04	94.77	3.40	3.59	13.11	1+15	8.74	13.70	0.73	5.36	6.23	1.16	18.55	. 69
05	101.5€	2.23	2.20	14.36	C.91	6.35	13.99	0-26	6.13	6-14	1.28	29.91	^ • 1
06	107.22	2.72	2.54	15.89	1.28	8.07	14.76	0.96	6.49	5.80	1.26	21.68	
07	112.2:	5.01	4.46	17.28	1.79	10.34	15.29	1.07	6.97	5.98	1.39	23.29	5
9 8 P	118.83	2.54	2.14	19+41	2.02	10.41	15.60	0.97	6.20	6.02	1.34	22.25	
09	122.6f	2.72	2.21	20.93	2.14	10.21	16.13	1.03	6- 36	5.83	1.17	20.03	2
10	127.79	8.40	6.57	23.21	3.05	13.14	16.34	1-06	6.47	6.09	1.25	20.47	3
11	131-8E	2.90	2.13	25.65	2.58		17.21	1.34	6.06	6.12	0.93	15-15	5
12	136.34	4.11	3.01	28.76	3.17	11.02	17.85	1.44	6.15	6.39	1.36	21.34	
13	139.96	7.02	5.02	31+31	5+25	16-76	18.40	1.86	9.88	6.63	1.49	22.56	2
14	144.05	4.06	2.82	35.45	3.61	10.75	19.23	1.83	9.51.	6.77	1.30	19.22	ī
15	146.45	4.24	2.90	37.51	4.66	12-42	20.75	2-52	12-15	7.22	2.52	34.92	2
15	147.44	5.47	3.72	39.65	6.16	15.28	21.02	2.31	10.58	7.19	1.76	. 24.49	1
17	146+93	5.81	3.95	39.95	3-09	7.73	21.65	1.24	5.71	5.80	1.57	23-05	1
18	149.77	8-23	5-53	41.53	4+87	11-74	22.16	1.74	7.84	7.07	1.51	21.42	2
19	150.38	3.78	2.51	43.60	1.73	3.98	22.75	0.60	2.65	6.83	1.60	23.45	
J-24	149.6#	5.22	4.15	43.47	5.68	17.00	23.09	1.75	7.64	6.98	2.14	29.15	6
5-29	147.55	8.45	5.75	41.27	6.79	16.45	27.59	2.54	11.25	6.71	2.49	37.13	6
^~34	148.53	5.76	4.01	40.98	5.28	12.85	22.47	1.99	8.87	6.24	1.79	27.25	10
5~39	148-22	4.55	3.07	41.29	4.90	11.87	22.44	2.14	9.38	6.89	2+18	31.59	7
-44	148.43	4.40	2.96	41.45	4.97	11.07	22.77	2.43	10.65	6.43	2.25	34.93	7
5-49	147.12	5.01	3.41	42.12	6.27	14.PR	23.05	7.47	10.71	7.25	2.49	34.37	
)-54	147.78	4.69	3+17	49.72	8.76	21.50	21.81	3.05	13.99	7.00	3.84	54.97	3
	147.01	4.96	3.37	36.93	6.66	17.10	21.60	2.75	12.72	5.97	2.96	47.84	3
	145.71	5.29	3-53	37.39	6 - 32	16.91	20.59	2.48	12.05	5.25	2.12	40.42	6

TOTAL NUMBER OF RECORDS IN THE STATE = 11749

	No. of	¥.	ight as perc	entage of stand	ar4
sta te	ohildren covered	7/ 90 Normal	75-90 N114	60-75 moderate	260 sever
	141	13.5	46.8	34.0	5.7
Tagil Madu	203	8.4	38.4	46.8	6.4
Kernataka	358	8.1	39.1	43.6	9.2
Indhra Fradesh	237	12.2	43.0	40.1	4.7
Maharashtra	242	7.0	33.5	46.3	13.2
Gujarat	178	6.2	9 . بدية	38.2	10.7
in dhya Fra de ab	55	10.9	27.3	36.4	25.4
Franka Drissa	119	11.8	33.6	40.3	14-3
/fissa /est-Bengel	121	9.1	47.1	39.7	4.1
itter Fradean	323	11.8	54.8	26.9	6.5
AALFE	C	9.9	40.8	39-2	10.1

ADDLE 24 **36** NNMB-RURAL-PERCENTAGE DISTRIBUTION OF PRESCHOOL CHILDREN (1-5 Years) ACCORDING TO GOMEZ CLASSIFICATION IN DIFFERENCE AND A TABLE 24 ACCORDING TO GOMEZ CLASSIFICATION IN DIFFERENT STATES-(BOYS) 1979

TABLE 26

NNMB-RURAL-PERCENTAGE DISTRIBUTION OF PRESCHOOL CHILDREN (1-5 YEARS) ACCORDING TO GOMEZ CLASSIFICATION IN DIFFERENT STATES-(GIRLS) 1979

	No. of	W	eight as perc	entage of stands	rd
STA TE	children covered	7/90 Rormal	75-90 Mild	60-75 Noderate	/ 60 Severe
Korela	115	28.7	46.1	21.7	3.5
Tamil Nadu	198	17.2	46.0	30.3	6.5
Ka rna taka	308	10.4	50.3	32.1	7.2
Andhra Fradesh	256	21.9	53.5	21.1	3.5
Maharashtra	216	13.4	46.7	30.6	9.3
Gujarat	134	18.7	41.0	35.1	5-2
k dhya. Pra de sh	57	15.8	31-6	49.1	3.5
Orissa	95	20.0	38.9	31.6	9.5
est-Bengal	88	13.6	53.4	29.5	3.5
Ittar Fradesh	269	31.6	48.7	14.5	5.2
verage.		19.1	45.6	29.6	5.7

TABLE 26

NNMB-RURAL-PERCENTAGE DISTRIBUTION OF PRESCHOOL CHILDREN (1-5 TEARS) ACCORDING TO GOMEZ CIASSIFICATION IN DIFFERENT STATES-(POOLED) 1979

	No. of	We	ight as Per	centage of Stand	ard
STA TE	children covered	7/ 90 Normal	75-90 Nild	60-75 Moderata	<u>/60</u> Severe
Kerala	256	20.3	46.5	28.5	. 4.7
Tamil Nadu	401	12.7	42.1	38.7	6.5
Karnataka	666	9.2	44.3	38.3	8.z
Andhra Pradesh	493	17.2	48.5	30.2	4.1
Manashtra	458	10.0	39.7	38.9	11.4
Gujaret	312	11.5	43.3	36.2	8.3
Madhya Pradesh	112	13.4	29.4	42.9	14.3
Orissa	214	15.4	36.0	36.4	12.2
West Bengal	209	11.0	49.8	35.4	3.8
Ottar Pradesh	592	20.8	52.0	21.3	5.9
lverage		14.2	43.2	34.7	7.9

RESULTS OF THE DATA OF DIET AND NUTRITION COMPILED FOR THE PERIOD

1975 - 78

RESULTS OF THE DATA OF DIET AND NUTRITION COMPILED FOR THE PERIOD

1975-78

PATTERN OF CONSUMPTION IN INDIVIDUALS

The data on diet surveys collected by 24 hour recall method between the years 1975-78 In different states have been pooled and the results of the consumption of nutrients- proteins, calories, iron and Vitamin A - in different age, Sex and physiological status groups have been analysed and presented in tables 27 to 44. From these tables , it is seen that Wide variations in the consumption levels exist between different individuals. These can be explained by some of the following parameters like: (1) socio-economic differences (2) season of survey (3) inherent variations in methodology and (4) between-investigators differences in the collection of data. However, it is unlikely that differences in investigators Would have played a significant role in this regard since all the investigators were brought to NIN from time to time and were given reorientation in diet survey methodologies.

The large variations observed in the consumption of Vitamin A Intakes in all the age groups is due to the consumption of varying amounts of foodstuffs rich in Vitamin A.

Tables 45 and 46 give the different percentile values of consumption of calories and proteins in different age, sex and physiological status groups, along With the recommended levels of intakes by the ICMR Expert Committee.

Tables 47 and 48 present the percentile values of the intakes of calories and proteins expressed as percent of the recommended daily allowance of these nutrients. From these tables, it is evident, as indicated by the 50th percentile values of intakes of calories and protein, that the problem of calorie Inadequacy should be of higher priority as compared to that of protein. Using the concept of 'Mean -2SD'of the RDA as the cut-off level for the classification of the adequacy or otherwise for proteins and calories, individuals in different age groups have been categorised into 4 groups. Results of the analysis of the data collected during the years 1975-79 are presented in tables 49 A-G.

From these tables, it is evident that a very small percentage of the population fall in the category of consuming diets which are deficient in proteins but contributing adequate amounts of calories. In fact, it is clearly demonstrated from these tables that protein inadequacy in a majority of the cases goes along with the calorie inadequacy.

PATTERN OF CONSUMPTION IN HOUSEHOLDS

The results of the Weighment diet survey conducted in the rural areas in different states have been analysed according to the amount of land possessed by the head of the family. The analysis was limited to intake of calories and proteins only and the results are presented in table 50. It is evident that the mean consumption levels of calories by the households who do not possess any land were found to be much less as compared to those who possessed land. These differentials were consistently noticed in all the states and were very marked in some of the states. The mean calorie Intakes (per Cu) were found to be less than the recommended 2400 calories in those families who did not possess any land in all the states surveyed. It may be noted that chantges In calorie consumption invariebly exhibit changes in protein consumption also as the dietsare cereal based.

Since simple possession of land may not mean much, particularly if no crops were raised in the land, the data Were analysed taking this fact also into consideration. The mean intakes of calories and proteins in those families Which have raised some crops as compared to those families Which have not raised any crops are presented in table 51. The consumption of protein and calories in households Who have raised some crops Were consistently higher in all the states.

The occupation of the head of the family is known to play a significant role in determining the food basket. This aspect was studied by categorizing the households into 3 groups - based on the occupation of the head of the family: labourer, cultivator and others. The consumption levels of protein and calories in labourer families was low as compared to the cultivator families. Those families which were categorized under others, were found to fall in between these two groups in all the states. This category of others included village artisans, petty businessmen etc. (Table 52).

"The consumption pattern in households of different social groups - (1) Harijans (2) Scheduled Tribes and (3) Others was also analysed. It should be mentioned that the coverage of the scheduled tribe families was very low in this survey as no special attempts were made to survey these families for this purpose. Table 53 presents the results of this analysis. It is evident that the consumption of proteins and calories in Harijan families was much lower than the rest of the community. The coverage of scheduled tribe was reasonable in the states of Maharashtra, Gujarat, Madhya

Pradesh and west Bengal. The study of the figures in these states reveals that In the states of Maharashtra and Madhya Pradesh, the consumption of proteins and calories by the scheduled tribe families Was better than that of the Harijan families. However, in the states of Gujarat and West Bengal, the scheduled tribes were found to consume lower amounts of proteins and calories as compared to the Harijan families.

In the rural areas, possession of cattle at home is generally considered as one of the indicators of their economic status. This indirectly is expected to affect their intake pattern. This aspect was studied in the present data and the results are presented in table 54. All the households were categorized as those in possession of cattle at home and those who *do* not possess them. It may be seen that the consumption of proteins and calories in those families whe possess cattle at home were higher as compared to those who do not possess any cattle.

The results of the different types of analysis carried out clearly demonstrate that the consumption is primarily income dependent and any other parameter that is associated with income status of the household also Would exhibit these differentials in the nutrient consumption patterns,

ANTHRD POMETRIC MEASUREMENTS

Means and standarddeviation along with the the coefficient of variation of different anthropometric measurements of infants surveyed during the years 1974-79 are presented according to different age and sex in tables 55-64. In table 65, the distribution of pre-school children according to ComeZ classification is presented in different states. From this table, it is evident that there 'exists extensive growth retardation in the children surveyed. Also, it is seen that 5-11% of that in different states exhibited severe growth rotardation (Gomez classification). Mild and moderate undernutrition constituted between 75-80%. Only 10-18% of the pro-school ege children can be categorized

as having normal weight for age.

NNMB - INTAKE OF NUTRIENTS PER DAY - 01 + YEAR - (1975-78)

	N	Proteins	(g)	Calories	(kcal)	Iron	(mg) S.D.	Vitami	n-A (µg
State		Mean	S.D.	Mean	S.D.	Mean		Mean	S.D.
Kerala	22	12.8	20.18	530	419	4.0	3.59	110	326.8
Tamil Nadu	26	18.0	21.73	620	430	7.6	8.89	166	414.2
Karnataka	42	15.2	12.25	595	412	8.4	7.28	63	61.7
Andhra Pradesh	35	11.2	9.44	417	307	4.2	3.91	65	72.3
Maharashtra	21	17.1	12.36	560	343	7.1	4.83	118	197.7
Gujarat	28	20.4	13.60	672	405	6.3	5.63	203	429.3
Madhya Pradesh	23	21.5	27.88	564	544	10.1	19.67	179	611.0
West Bengal	23	21.4	11.66	706	497	10.0	8.51	211	268.7
Uttar Pradesh	25	24.2	23.56	659	733	10.8	12.95	226	277.4
Recommended levels		17.0		1200		15-20		250	

TABLE 28

NNMB - INTAKE OF NUTRIENTS PER DAY - 02 YEARS - (1975-78)

State	Ν	Protei	lns (g)	Calories	(kcal)	Iron	(mg)	Vitamin	n-A (µg
		Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Kerala	27	16.2	13.50	565	252	5.9	2.87	117	266.2
Tamil Nadu	41	24.0	11.80	877	37 2	11.1	5.69	130	127.2
Karnataka	69	28.9	13.34	1005	429	15.5	8.42	169	239.7
Andhra Pradesh	63	20.8	9.'57	783	325	8.9	4.43	144	170.1
Maharashtra	37	20.7	12.11	700	372	9.1	5.64	113	124.8
Gujarat	35	25.4	10.21	923	332	10.7	5.19	213	398.8
Madhya Pradesh	24	32.2	21.43	908	562	13.8	9.12	108	160.0
West Bengal	34	21.4	11.66	706	497	10.0	8.51	211	268.7
Uttar Pradesh	37	25.7	14.76	762	443	10.0	5.57	118	206.5
Recommended levels		18.0		1200		15-20		250	

									42
	N	Protei	ns (g)	Calories	(kcal)	Iron	(mg)	Vitan	nin-A (µg)
State		Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Kerala	37	17.6	8.86	660	251	7.0	3.26	57	90.0
Famil Nadu	41	27.2	15.06	1022	524	13.2	8.16	102	77.9
Karnataka	83	30.4	14.78	1089	444	17.9	8.61	152	175.2
ndhra Pradesh	63	22.7	10.77	882	400	10.0	5.63	122	137.8
aharashtra	54	26.3	14.39	909	505	12.3	8.10	115	122.5
ujarat	45	29.6	16.47	1013	447	13.0	7.28	244	505.7
adhya Pradesh	28	34.4	12.52	1069	417	13.0	5.36	83	63.6
est Bengal	54	27.3	19.21	896	400	14.4	9.25	339	458.0
ttar Pradesh	41	27.3	17.17	758	374	11.4	8.50	119	290.2
ecommended levels		19.0		1200		15-20		250	

NNMB - INTAKE OF NUTRIENTS PER DAY - 03 YEARS - (1975-78)

NNMB - INTAKE OP NUTRIENTS PER DAY - 4-7 YEARS - (1975-78)

Karnataka22938.817.14139853423.311.0415934.1Andhra Pradesh14326.612.37103039912.06.3415435Maharashtra15934.116.53114853517.09.2314335Gujarat10532.612.69117542515.28.383126Madhya Pradesh9234.315.52105845214.57.0587West Bengal13529.513.6310073821.4.78.1823335	n-A (µg)	Vitamin	(mg)	Iron	(kcal)	Calories	Proteins (g)		Ν	State
Tamil Nadu9826.512.69100240113.46.351907Karnataka22938.817.14139853423.311.041593Andhra Pradesh14326.612.37103039912.06.341543Maharashtra15934.116.53114853517.09.231433Gujarat10532.612.69117542515.28.383126Madhya Pradesh9234.315.52105845214.57.0587West Bengal13529.513.6310073821.4.78.182333	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	-	
Karnataka22938.817.14139853423.311.0415934.1Andhra Pradesh14326.612.37103039912.06.3415435Maharashtra15934.116.53114853517.09.2314335Gujarat10532.612.69117542515.28.383126Madhya Pradesh9234.315.52105845214.57.0587West Bengal13529.513.6310073821.4.78.1823335	79.0	69	3.74	9.0	359	837	10.35	21.4	94	Kerala
Andhra Pradesh14326.612.37103039912.06.34154399Maharashtra15934.116.53114853517.09.23143399Gujarat10532.612.69117542515.28.38312490Madhya Pradesh9234.315.52105845214.57.0587West Bengal13529.513.6310073821.4.78.1823333	764.3	190	6.35	13.4	401	1002	12.69	26.5	98	Tamil Nadu
Maharashtra15934.116.53114853517.09.2314333Gujarat10532.612.69117542515.28.383126Madhya Pradesh9234.315.52105845214.57.0587West Bengal13529.513.6310073821.4.78.1823333	153.3	159	11.04	23.3	534	1398	17.14	38.8	229	Karnataka
Gujarat10532.612.69117542515.28.383126Madhya Pradesh9234.315.52105845214.57.0587West Bengal13529.513.6310073821.4.78.1823333	156.3	154	6.34	12.0	399	1030	12.37	26.6	143	Andhra Pradesh
Madhya Pradesh 92 34.3 15.52 1058 452 14.5 7.05 87 West Bengal 135 29.5 13.63 1007 382 1.4.7 8.18 233 3	159.1	143	9.23	17.0	535	1148	16.53	34.1	159	Maharashtra
West Bengal 135 29.5 13.63 1007 382 1.4.7 8.18 233 333	601.8	312	8.38	15.2	425	1175	12.69	32.6	105	Gujarat
	76.8	87	7.05	14.5	452	1058	15.52	34.3	92	Madhya Pradesh
Uttar Pradesh 151 35.6 17.89 1029 448 14.7 7.37 109 2	335.3	233	8.18	1.4.7	382	1007	13.63	29.5	135	West Bengal
	204.8	109	7.37	14.7	448	1029	17.89	35.6	151	Uttar Pradesh
Recommended levels 22.0 1500 15-20 300		300		15-20		1500		22.0		Recommended levels

NNMB - INTAKE OF NUTRIENTS PER DAY - 7-10 YEARS - (1975-78)

State	N -	Protein	(g)	Calories	(kcal)	Iron	(mg)	Vitami	n-A (µg)
		Mean	S.D. Mean		S.D.	Mean	S.D.	Mean	S.D.
Kerala	73	25.9	11.76	994	291	10.9	3.88	02	34.9
Tamil Nadu	100	32.0	15.41	1236	504	15.6	8.33	130	130.8
Karaataka	206	46.4	21.59	1694	667	27.8	14.40	171	195.5
Andhra Pradesh	116	30.4	11.23	1173	378	13.9	6.52	156	178.3
Maharashtra	172	40.1	18.32	1356	572	20.1	10.02	196	277.1
Gujarat	105	36.9	12.80	1372	438	15.9	6.51	38	226.5
Madhya Pradesh	99	41.1	17.17	1293	477	17.1	8.47	87	59.4
West Bengal	132	32.0	14.61	1152	422	16.5	8.78	313	503.1
Uttar Pradesh	119	44.0	23.70	1271	591	18.5	9.88	119	207.9
Recommended levels		33.0		1800		15-20		400	

TABLE 32

NNMB - INTAKE OF NUTRIENTS PER DAY - 10-13 YEARS - (1975-78)

State		Prote	ns (g)	Calories	(kcal)	Iron	(mg)	Vitami	n—A (µg)
	IN	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D
Kerala	77	30.8	13.52	1160	305	13.1	4.30	89	79.8
Tamil Nadu	83	43.1	17.64	1609	G03	21.4	12.13	156	132.3
Karnataka	138	53.3	24.86	1928	687	32.0	15.53	221	277.0
Andhra Pradesh	75	37.7	23.52	1398	519	10.3	10.00	159	207.8
Maharashtra	166	43.5	19.04	1478	614	23.1	10.79	195	303.2
Gujarat	87	43.6	17.22	1546	574	18.2	8.24	203	211.2
Madhya Pradesh	51	42.6	14.78	1342	356	16.9	6.39	97	80.9
West Bengal	120	37.7	18.73	1311	480	19.6	13.01	296	462.7
Uttar Pradesh	104	50.4	27.35	1509	672	21.6	10.74	133	227.1
Recommended levels		41.0		2100		15-20		600	

NNMB -	INTAKE O	F NUTRIENTS	PER	DAY	-	13-16	YEARS	_	BOYS -	-	(1975-78)	
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									44
	N	Protei	.ns (g)	Calories	(<u>kcal)</u>	Iron	mg)	Vitam	in-A (µg)
State	IN	Mean S.D. Mean		Mean	S.D.	Mean	S.D.	Mear	n S.D.
Karala	36	31.2	11.60	1191	398	13.4	4.80	106	119.6
Tamil Nadu	34	44.4	22.35	1728	766	23.9	14.42	188	203.5
Karnetaka	33	613	24.53	2274	764	37.5	17.98	258	377.9
Andhra Pradesh	21	35.7	13.02	1448	555	16.9	7.08	154	129.1
Maharashtra	64	49.1	23.16	1671	728	27.1	13.15	298	365.9
Gujarat	30	50.8	17.29	17 57	645	21.3	11.17	184	153.3
Madhya Pradeah	27	49.1	17.78	1550	430	19.9	8.00	102	64.9
West Bengal	52	49.3	22.22	1721	701	25.7	15.28	377	476.7
Uttar Pradesh	47	62.2	25.34	2013	844	27.6	14.42	279	748.2
Recommended levels		55.0		2500		25.0		750	

NNMB - INTAKE OF NUTRIENTS PER DAY - 13-16 YEARS - GIRLS - (1975-78)

State	Ν	Protei	n (g)	Calories	(kcal)	Iron	(mg)	Vitamin-A (µg)		
		Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	
Kerala	35	36.4	12.48	1431	322	15.8	4.88	126	154.2	
Tamil Nadu	24	43.8	25.75	1678	862	22.2	16.48	127	95.4	
Karnataka	45	54.3	23.94	2056	721	32.7	14.57	156	151.9	
Andhra Pradesh	26	41.2	12.85	1624	409	19.7	9.10	180	155.0	
Maharashtra	37	48.3	25.83	1606	736	24.5	12.54	248	482.6	
Gujarat	32	50.2	17.97	1792	711	22.2	10.37	238	322.5	
Madhya Pradesh	34	52.2	23.61	1597	673	21.9	12.07	109	119.4	
Wash Bengal	46	36.2	14.29	1384	490	20.2	8.57	353	482.7	
Uttar Pradesh	31	42.6	19.56	1378	569	18.5	9.04	140	186.3	
Recommended levels		50.0		2500		35.0		750		

TABLE 33

nnNNMB - INTAKE OF NUTRIENTS PER DAY - 16-18 YEARS - BOYS - (197 5-78)

									10
State	N	Prote	ins (g)	<u>Calories (kcal)</u>		Iron	(mg)	Vitamir	n-A (µg)
	IN	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Kerala	17	44.9	10.04	1591	380	18.1	3.04	113	35.6
Tamil Nadu	8	46.9	13.58	1967	649	24.7	9.19	178	182.3
Karnataka	25	66.0	26.21	2362	703	39.0	15.43	222	169.6
Andhra Pradesh	16	53.6	14.64	2004	395	21.8	5.32	206	222.6
Maharashtra	23	56.2	29.39	1883	899	32.5	17.23	271	415.5
Gujarat	17	57.2	19.14	2060	617	23.7	8.41	316	304.5
Madhya Pradesh	11	62.9	21.14	1895	545	23.3	12.29	149	63.3
West Bengal	27	54.2	38.91	1848	696	29.7	22.50	, 385	630.7
Uttar Pradesh	24	74.2	37.94	2229	1027	32.5	14.25	216	236.9
Recommended levels		60.0		3000		25.0		750	

TABLE 36

NNMB - INTAKE OF NUTRIENTS PER DAY-16-18 YEARS - GIRLS - (197 5-78)

State	N	Proteins (g)		Calories (kcal)		Iron (mg)		Vitamin-A (µg)		
		Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	
Kerala	16	32.2	11.23	1327	423	15.0	6.35	134	195.1	
Tamil Nadu	15	44.2	19.46	1846	592	23.4	10.32	208	220.8	
Karnataka	17	56.4	16.59	2131	433	34.2	11.49	271	254.2	
Andhra Pradesh	5	56.0	21.41	2017	639	26.8	11.52	138	53.5	
Maharashtra	20	46.7	18.40	1601	562	26.7	11.86	274	343.8	
Gujaratt	15	42.8	16.67	1626	517	20.5	11.04	449	844.8	
Madhya Pradesh	16	52.5	15.27	1618	510	24.4	6.92	152	165.2	
West Bengal	18	40.4	13.49	1524	459	19.3	6.49	377	729.6	
Uttar Pradesh	19	61.0	24.87	1804	585	24.3	11.32	111	97.7	
Recommended levels		50.0		2200		35.0		750		

	NNMB - IN 78)	ITAKE OF N	IUTRIENTS	PER DAY -	ADULTS MAI	ES (SEDE	INTARY) -	(1975-	46
State	 N	Prota	ine (g)	Caiorie	es (Kcal)	Iro	n (mg)	Vitamin	Α (µg)
		Mean	S.D.	man	S.D.	Mean	S.D.	Mean	S. D.
Karala	56	50.1	20.90	1046	754	21.3	8.30	216	272.0
Tamil Nadu	122	54.7	23.05	2123	713	26.9	13.64	218	186.1
Karnataka	243	71.4	29.40	2676	940	42.0	19.32	252	251.1
Andhra Pradesh	159	52.1	22.00	2060	712	22.7	9.58	232	194.5
Maharashtra	272	62.6	30. 65	2088	940	32.0	16.93	327	353.1
Gujarat	217	61.5	24.35	2180	779	26.6	13.35	448	764.4
Madhya Pradesh	145	60.4	24.02	1854	596	24.4	12.17	134	108.4
West Bengal	110	SS.9	25.33	2030	758	28.0	16.38	399	533.3
Uttar Pradesh	170	74.0	38.57	2220	995	31.1	15.87	216	516.5
Recommended Levels		55.0		2400		20.0		750	

TABLE 37 NNMB - INTAKE OF NUTRIENTS PER DAY - ADULTS MALES (SEDENTARY) - (1975-

TABLE 38 NNMB - INTAKE OF NUTRIENTS PER DAY - ADULT MALES (MODERATE) - (1975-78)

State	N	Prote	Proteins (g)		s (kcal)	Iro	n (mg)	Vitami	n A (µg)
		Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Karala	145	42.6	20.63	1704	741	19.0	8.01	144	193.4
Tamil Nadu	150	59.0	32.99	2290	1063	32.2	21.26	186	172.0
Karnataka	216	75.9	36.00	2788	1081	46.3	21.69	240	253.3
Andhra Pradesh	127	52.6	22.37	2155	751	26.9	13.15	195	238.4
Maharashtra	111	67.3	29.50	2207	859	37.4	16.02	285	458.1
Gujarat	126	64.4	30.13	2218	893	27.9	15.70	331	723.2
Madhya Pradesh	52	62.1	23.29	1930	591	27.6	12.36	114	155.3
West Bengal	152	55.2	26.43	2000	759	30.4	16.97	514	777.2
uttar Pradesh	185	73.3	36.71	2150	880	32.3	18.76	303	866.7
Recommended Levels		55.0		2800		20.0		750	

NNMB - INTAKE OF NUTRIENTS PER DAY - ADULT MALES (HEAVY) - (1975-'78)

		01					(1970	,	4
	N	Protei	ns (g)	Calorie	s (kcal)	Iron	(mg)	Vitam	in A (µg
State	Ν	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Kerala	-	-	-	_	-	-	-	-	-
Tamil Nadu	3	57.1	52.04	2099	1547	35.3	26.79	233	129.7
Karnataka	5	56.7	25.26	2193	859	32.9	14.69	184	159.3
Andhra Pradesh	-	-	_	-	-	-	-	-	-
Maharashtra	5	48.9	21.91	1726	683	30.2	8.23	291	400.5
Gujarat	13	50.6	12. 30	1880	502	20.7	8.53	397	690.4
Madhya Pradesh	-	-	-	-	-	-	-	-	-
West Bengal	2	69.6	38.18	2259	491	49.2	37.61	597	95.9
Uttar Pradesh	-	87.0	3.60	2579	157	38.5	3.53	90	29.0
Recommended Levels		55.0		3900		20.0		750	

TABLE 40

NNMB - INTAKE OF NUTRIENTS PER DAY - ADULT FEMALES (SEDENTARY) - (1975-'78)

State	State N		Proteins (g)		Calories (kcal) Iron (mg)			Vitamin A (µg)		
		Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	
Kerala	255	34.2	11.93	1387	534	14.8	4.72	133	307.4	
Tamil Nadu	184	43.8	17.02	1739	593	22.5	10. 97	177	149.2	
Karnataka	301	63.6	32.90	2333	892	37.2	18.07	225	255.1	
Andhra Pradesh	226	45.1	17.81	17 98	607	20.6	8.23	200	173.8	
Maharashtra	296	53.3	21.64	1816	684	28.5	12.68	273	312.0	
Gujarat	226	49.5	18.76	1748	645	21.2	11.64	340	605.1	
Madhya Pradesh	143	57.3	24.08	1777	617	23.9	13.21	134	240.9	
West Bengal	176	43.4	17.12	1595	54	23.7	12. 90	455	809.6	
Jttar Pradesh	297	57.4	28.52	1731	778	25.1	14.76	225	513.9	
Recommended Levels		45.0		1900		30.0		750		

41

NNMB - INTAKE OF NUTRIENTS PER DAY - ADULT FEMALES (MODERATE) - (1975-

•	78)	

Q h a h a	NT.	Prote	ins (g)	Calorie	Calories (kcal)		(mg)	Vitam	in A (µg)
Stats	N –	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Kerala	27	25.6	12.24	1141	350	12.2	4.78	64	30.2
Tamil Nadu	47	52.9	35.01	1929	1024	28.7	19.83	132	107.0
Karnataka	38	72.0	35.09	2439	862	44.1	19.45	327	393.6
Andhra Pradesh	51	50.9	20.19	1976	610	26.4	12.40	173	180.9
Maharashtra	17	52.6	18.17	1809	581	31.8	12.64	175	199.3
Gujarat	31	47.5	17.07	1719	591	20.7	9.47	192	394.0
Madhya Pradesh	11	53.2	23.70	1704	608	25.5	7.21	62	44.1
Wast Bengal	13	39.6	26.47	1452	835	30.6	30.93	650	765.0
Uttar Pradesh	6	68.5	32.83	1873	782	35.7	13.03	438	869.5
Recommended Lavels		45.0		2200		30.0		750	

TABLE 42 NNMB - INTAKE OF NUTRIENTS - PREGNANT ADULT FEMALES - SEDENTARY - 1975-'78

State	N	Proteine (g)	Calories	Calories (kcal)		(mg)	Vitamin A (µg)	
State	IN	Mean S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Karala	4	29.4 13.06	1199	200	13.2	3.32	70	30.4
Tamil Nadu	6	3S.2 17.68	1302	712	19.4	11.62	227	269.4
Karnataka	9	79.4 26.68	2523	682	47.9	15.23	230	122.4
Andhra Pradesh	8	47.1 17.00	1802	512	18.2	8.33	214	193.2
Maharashtra	7	49.0 14.78	1664	496	26.7	16.33	501	708.7
Gujarat	20	45.8 20.38	1713	667	20.1	9.76	217	163.4
Madhya Pradesh	5	40.1 18.08	1454	216	19.7	5.12	164	89.2
West Bengal	10	64.7 24.71	1908	470	26.1	9.77	216	211.4
Uttar Pradesh	2	49.6 19.02	1373	292	17.9	9.05	123	49.8
Recommended Levels		55.0	2200		40. O		750	

NNMB - INTAKE OF NUTRIENTS PER DAY - LACTATING FEMALES - SEDENTARY - (1975- '78)

4	
9	

State	N -	Proteins (g)	Calories (kcal)	Iron (mg)	Vitamin A (µ
State	IN -	Mean S.D.	Mean S.D.	Mean S.D.	Mean S.D.
Kerala	38	31.6 9.22	1272 345	13.3 3.45	85 37.4
Tamil Nadu	42	47.8 19.33	1831 623	23.4 10.29	181 169.1
KarnataKa	80	67.8 32.61	2422 965	39.2 17.66	235 215.1
Andhra Pradesh	23	50.4 17.41	1916 599	22.3 8.78	209 166.3
Maharashtra	53	57.3 30.86	1928 948	29.9 15.45	317 413.9
Gujarat	73	54.1 20.03	1894 561	25.0 10.30	295 383.6
Madhya Pradesh	32	67.6 23.37	2057 595	28.3 15.53	161 139.8
West Bengal	64	45.2 25.41	1631 627	23.7 12.96	388 571.0
Uttar Pradesh	12	58.4 20.72	1695 558	28.9 25.82	576 1589.1
Recommended Levels		65.0	2800	30.0	1150

TABLE

44

NNMB - INTAKE OP NUTRIENTS PER DAY - LACTATING FEMALES - MODERATE - (1975-'78)

State	N —	Prote	eins (g)	Calori	es (kcal)	Iror	n (mg)	vitam	in A (µg)
State	IN	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Kerala	1	50.9	-	1445	-	23.2	-	33	-
Tamil Nadu	8	59.8	22.79	1935	603	27.5	10.23	144	77.3
Karnataka	7	53.0	29.88	1951	1046	35.9	18.52	178	148.1
Andhra Pradesh	5	58.5	21.04	2317	712	30.9	17.55	394	489.3
Maharashtra	7	49.4	19.08	1598	692	27.3	12.63	80	49.9
Gujarat	8	65.4	30.99	2141	681	34.3	26.03	703	1601.4
Madhya Pradesh	1	82.0	-	2601	-	38.3	-	73	-
Vest Bengal	6	43.8	23.52	1608	516	19.8	12.90	186	179.1
Jttar Pradesh	-	-	-	-	-	-	-	-	-
ecommended Levels		65.0		2900		30.0		1150	

NNMB - PERCENTILE VALUES OF CALORIES (KCal) AND PROTEINS (gms) INTAKES PER DAY IN DIFFERENT AGE-GROUPS.

1975-78

											0
Percen-		1+	2+	3+	4-7	7-10	10-13	1:	3-16	16	5-18
tiles		, T (, r		10 15	Boys	Girls	Boys	Cirle
10th	CALORIES	192	360	408	600	720	840	875	858	1140	968
10011	PROTEINS	4.2	9.2	12.2	14.3	17.4	21.3	23.1	21.0	30.0	25.5
25th	CALORIES	300	528	S64	765	936	1092	1175	1210	1620	1320
	PROTEINS	7.1	14.2	16.4	20.5	25.1	29.1	31.9	32.0	42.6	35.0
50th	CALORIES	504	756	780	1080	1224	1407	1600	1540	1920	1694
	PROTEINS	12.6	22.1	23.1	28.8	34.6	40.0	45.1	41.0	54.6	44.5
75 th	CALORIES	810	1068	1092	1365	1611	1785	2125	1958	2400	1958
, o on	PROTEINS	22.8	31.5	33.6	39.6	47.5	52.6	57.2	56.0	69.0	55.6
90 th	CALORIES	1176	1344	1386	1732	2322	2310	2700	2376	3000	2376
50 011	PROTEINS	32.3	39.6	44.0	48.4	67.0	69.7	79.7	72.5	94.2	73.6
	RECOMMENDED	17	18	20	22	33	41	55	50	60	50
	LEVELS	1200 1200	1200	1200	1500	1800	2100	2500	2200	3000	2200

TABLE 46 NNMB - PERCENTILE VALUES OF CALORIES (KCal) AND PROTEINS (gms) INTAKES PER SAT IN ADULT POPULATION

1975 - 78.

	Percentiles	Ма	le	Fema	le	Pre	gnant	Lac	tating
		Sedentary	Moderate	Sedentary	Moderate	Sedentary	Moderate	Sedentary	Moderate
10 th	CALORIES	1248	1204	988	946	1078	1100	1014	1131
	PROTEINS	51.9	29.7	25.2	22.1	28.0	24.2	27.2	27.3
29th	CALORIES	1584	1680	1292	1232	1298	1250	1378	1450
	PROTEINS	42.9	40.2	33.8	51.5	32.5	27.5	35.1	35.1
50th	CALORIES	2040	2044	1691	1738	1672	1675	1768	1972
	PROTEINS	56.7	52.5	45.9	45.9	42.9	38.5	47.5	47.5
75th	CALORIES	2592	2660	2166	2310	2178	1750	2340	2501
/ J L II	PROTEINS	75.4	76.5	60.8	63.5	64.9	44.0	68.3	71.5
90th	CALORIES	3288	5444	2736	2860	2640	2125	2834	2581
	PROTEINS	97.9	104.5	81.0	85.5	77.0	67.7	89.7	89.7
RDA	CALORIES	2400	2800	1900	2200	220	2500	2600	2900
	PROTEINS	55	55	45	45	55	55	65	65

NNMB - PERCENTILE VALUES OF CALORIES (Kcal) AND PROTEINS (gms) INTAKES PER DAY

(EXPRESSED AS % OF RDA) IN DIFFERENT AGE-GROUPS

Percen-		1+	2+	3+	4-7	7-10	10-13	13	3-16	1	6-18
tiles								Soya	Cirls	Boys	Cirls
10 th	CALORIES	16	30	34	40	40	40	35	39	38	44
10 011	PROTEINS	24	51	61	65	53	52	42	42	50	44
25th	CALORIES	25	44	47	51	52	52	47	55	54	60
	PROTEINS	42	79	82	93	76	71	58	64	71	70
50 th	CALORIES	42	63	65	72	68	67	64	65	64	77
	PROTEINS	74	123	115	131	115	197	82	82	91	89
75th	CALORIES	68	89	91	91	89	85	85	89	80	89
/ 0 011	PROTEINS	134	175	168	180	144	128	104	112	115	111
90th	CALORIES	98	112	115	115	129	110	108	108	100	108
	PROTEINS	190	220	220	220	203	170	145	14S	157	147
	· · ·	1200	1200	1200	1500	1800	2100	2500	2200	3000	2200
		17	18	20	22	33	41	55	50	60	50

TABLE 48

NNMB - PERCENTILE VALUES OF CALORIES (KCal) AND PROTEINS (gms) INTAKES (EXPRESSED AS % OF RDA) PER DAY IN ADULT POPULATION

1975 - 78

	Percentiles	M	Iale	Femal	e	Pregn	lant	Laota	ating
		Eedentary	Moderate	Sedontary	Moderate	Sedentary	Moderate	Sedentary	Moderat
10th	CALORIES	52	43	52	43	49	44	59	39
10011	THOTEINS	55	54	56	49	51	44	42	42
25+b	CALORIES 25th	66	60	68	56	59	50	53	50
	PROTEINS	78	73	75	70	61	50	54	54
50th	CALORIES	85	73	89	79	76	67	68	68
50011	PROIEINS	103	95	102	102	78	70	73	73
75th	CALORIES PROTEINS	108	95	114	105	99	70	90	09
, 0 011	TROTETRO	137	139	135	141	118	80	105	110
90th	CALORIES	137	123	144	130	120	85	109	138
JUCH	PROTEINS	178	190	180	190	140	123	138	138
RDA	CALORIES	2400	2800	1900	2200	2200	2500	2600	2900
	PHOTEINS	55	55	45	45	55	55	65	65

********					52
State	N	P C	R C - +	¢ C + -	P C + +
• • • • • • • • • • • •		• • • • • • • • • • •			• • • • • • •
Kerele	119	36.1	-	50.4	13.4
Temil Nedu	168	13.1	0.6	42.3	44.0
Karnataka	269	12.3	-	36.4	51.3
Andhre Predesh	203	16.7	•	46,3	35.0
Maherashtra	159	15,7	-	48+4	35.8
Gujeret	138	5.1	•	44.2	50.7
Madhya Pradesh	101	9.9	•	44.6	45,5
Oriesa	44	22.7	•	36.6	38,46
West Bengel	131	8.4	•	58.0	32.8
Uttar Pradeeh	160	17.2 15.2	0.1	60.0 46.8	22.8 559

		TABLE 4	19 (2	/)		
PROTEIN	CALORIE	ADEQUACY	IN	CHILDRE	(1-4	Years)

(1975-79)

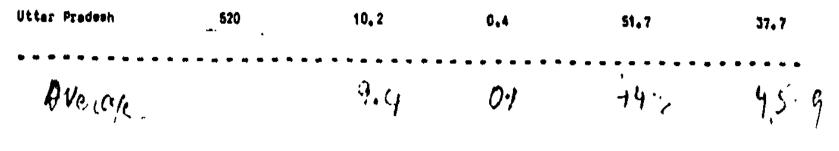
TABLE 49 (8)

1.2.1

PROTEIN CALORIE ADEQUACY IN CHILDREN (4-13 years)

(1975-79)

* * * * * * * * * *					
State	ĸ	PÇ	₽ C - +	P C + -	P C + +
Kersle	375	25, 3	0+3	56.5	17.9
Temil Nadu	397	9.5	-	43.6	47.1
Karnataka	786	2.7	-	26.6	70.6
Andhia Pradaeh	431	8.6	. –	50.1	. 42,3
fiehersehtre	673	6. 7	-	46.4	46.9
Cujerat	372	4,0	-	43.0	53.0
Radhya Pradeeh	310	11.0	•	46.4	40.6
Oriete	187	19.3	-	27.0	52.9
Vest Bengal	441	11.1	•	57.6	31.3



	ΡC	ΡC	ΡC	ΡC
n		- +	+ -	+ +
155	35.5	1.3	47.1	16.1
97	20.6	_	24.7	54.7
159	8.8	_	18.2	73.0
78	18.0	-	41.0	41.0
177	16.9	0.6	45.2	37.3
116	11.2	-	33.6	55.2
102	13.7	-	44.1	42.2
72	27.8	-	19.4	52.8
159	22.6	-	37.8	39.6
157	10.8	_	44.0	45.2
	18.6	0.2	35.5	45.7
	97 159 78 177 116 102 72 159	n 155 35.5 97 20.6 159 8.8 78 18.0 177 16.9 116 11.2 102 13.7 72 27.8 159 22.6 157 10.8	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n $$ $-+$ $+-$ 15535.51.347.19720.6 $-$ 24.71598.8 $-$ 18.27818.0 $-$ 41.017716.90.645.211611.2 $-$ 33.610213.7 $-$ 44.17227.8 $-$ 19.415922.6 $-$ 37.815710.8 $-$ 44.0

NNMB - PROTEIN CALORIE ADEQUACY - (13-18 YRS)

(1975 - 79)

TABLE 49 (D)

NNMB - PROTEIN CALORIE ADEQUACY - ADULT MALE (1975 - 79)

State	n	P C	P C — +	P C + —	PC
Kerala	319	19.7	1.3	41.1	37.9
Tamilnadu	350	7.7	-	27.1	65.2
Karnataka	608	4.3	0.3	14.5	80.9
Andhra Pradesh	356	9.8	-	25.8	64.4
Maharashtra	506	9.7	-	30.6	59.7
Gujarat	421	4.0	-	31.2	54.8
Madhya Pradesh	246	12.2	-	36.2	51.6
Orisaa	183	14.2	_	28.4	57.4
West Bengal	302	8.6	_	37.1	54.3
Uttar Pradesh	471	7.8	-	23.9	63.3
Average		9.8	0.2	30.1	59.9

	(1)//							
Plate		<u>r</u> c	<u>.</u> ¢	<u>‡ c</u>	\$ \$			
Kerela	401	23.7 .	3.2	27.2 .	45.9			
las 11 no de	291	9.6	0.3	15.8	74.2			
Kerneteke	460	3.9	0.2	6.5	89.3			
adhra Pradoah	329	7.3		11.2	81.5			
<u>hhere</u> htre	416	7.0		20.9	72.1			
ujarat	322	4.3		23.0	72.7			
adnys Fradesh	194	7.7		21.1	71.2			
bris en	158	16.4		7.6	76.0			
fest Bengal	211	10.9		27.5	61.6			
Star Pradesh	i+Oli+	9.2		23.0	67.8			
Average		10.0	0.4	18.4	71.2			

NAME - PROTEIN CALORIE ADEQUACY - ADULT PENALE (NPHL) (1975-79)

TABLE 49 (F)

HINE - PROTECH CALOREE ADEQUACE - ADULT FEMALE (LACEATING) (1975-79)

•			(1973-73	,,	
Rate	A	P-C-	P-C+	P+C-	P+ 5+
le pula	45	62.2		33.3	4.5
Pail nedu	71	26.2		25.3	46.5
(A you taka	112	13-4		21.4	65.2
adara Pradesh	52	19.2		25.0	55.8
iaba raahtra	86	20.5	**	40.9	38.6
ujagat	99	12.1	1.0	36.4	50.5
dhyn Fradesh	10	17.5	,	20.0	62.5
rism	15	53-3		20.0	26.7
est Bengal	82	42.7		32.9	24.4
ttar Fradesh	39	23.1		25.6	51.3
		29.2	0.1	28.1	42.6

TABLE 49 (G)

HAND - PROTEIN CALORIE ADEOUACY - INDIVIDUALS (1975-79)

State	*	AC	PC -+	#C +	КС ++
Kerala	3414	26.8	1.4	42.4	27.4
Tant1 Wedy	1374	11,2	0.1	31.1	57.4
Karnataka	2394	5.3	9.1	20.0	74.6
Andhra Pradeen	1449	10.9	-	33, 3	\$5.6
Manage shtee	2019	¥. 7	0.1	37.0	63, 2
Gwjerat	1466	8, 3	0.1	34.1	40.5
Madhya Pradaah	993	11.1	-	36, 1	\$0.6
Orices	679	19.1	-	22. 7	50,2
fast Sengel	1326	13.6	-	44.3	42.1
Utter Predeet	1771	10.4	0.1	38.7	10.1

12.3 0.2 34.2 \$3.3 weesde

•		
	POOLED (1975-78)	
	1	

a. A		No lend			(5 a024a			5-10 acres	•		7/10-00200	•
		Proteins	Calories		Proteins	Calories		Proteins	Calories		Proteins	Calories
State	Hean Hean R S.D. S.D.	X	Nean S.D.	Hean S.D.	n	Nean S.D.	Nean, S.D.	n	Hean S.D.	Nem S.D.		
Kerels	85	44.2 • 15.68	1824 • : 524	893	44.3 + 15.52	1904 <u>+</u> 503	22	57.5 • 19,71	2232 • 564	13	34.6 + 14.97	1509 • 424
teniluafu	363	52.3 + 20.11	2108 + 662	352	56.6 + 21.57	2320 4 769	109	66.7 + 22.07	: 2671 + 874	78	67.2 + 20.41	2718 • 829
Farna teka	305	63.5 + 24.61	2312 + 752	410	65.3 + 20.07	2576 + 685	181	76.3 + 20,60	2860 + 68 3	251	86.5 + 24,82	3099 • 7 55
Indhra Pradeah	396	53.8 + 18.39	2274 + 700	, 305	59.7 <u>+</u> 17.97	2460 584	104	72.3 • 21273	2824 + 645	179	74.3 • 24.25	2914 + 872
Keharashtra	360	58.8 + 19.78	2006 + 655	260	62.5 + 21.45	2178 • 729	142	- 65.7 + 20.59	2251 • 759	283	73.8 + 22.51	2517 • 7 58
Gujarst	422	57.2 + 17.92	1999 <u>*</u> 5 04	346	-60.1 + 18.61	2042 • 590	171	64.5 + 19.70	2234 + 660	216	70.6 20.61	2444 • 667
Heâkyn Predeah	92	58.0 + 21.09	1977 + 565	100	59.9 19.07	1939 • 535	` 90	67.1 <u>+</u> 19.21	2108 <u>+</u> 483	146	74.5 + 22.51	2403 • 665
Vest-Bengal	202	48.7 + 23,29	1866 + 767	467	,* 59.2 + 23.35	2346 • 857	76	76.3 • · · · · · · · · · · · · · · · · · ·	3055 <u>*</u> 735	29	75.2 + 23.21	3052 + 912
Uttar Preiseh	294	64.2 · 24.57	1991 <u>+</u> 705	305 - 3	66.2 · 21,09	21 16 + 5 56	<u>1</u> .17	73.9 •) 22.04	2227 <u>•</u> 661	_ ¹ 68	17.7 <u>+</u> 20.95	2377 • 683

• FER CONSIDERION UNLE PER DA!

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NNMB- CALORIE AND PROTEIN INTAKE* ACCORDING TO POSSESSION OF MILCH/NON-MILCH CATTLE AT HOME FOR DIFFERENT STATES

POOLED (1975-78)

		No. cattle at	home	Milch	/Non-milch cattle	at home
State		Proteins	Calories		Proteins	Calories
	n	Mean S .D.	Mean S .D.	n	Mean S .D .	Mean s .D.
Kerala	610	41.6 ± 15.13	1873 ± 487	403	48.8 ± 15.70	2033 ± 513
Tamilnadu	436	53.5 ± 21.11	2166 ± 731	466	60.3 ± 21.57	2488 ± 807
Karnataka	387	64.8 ± 24.01	2398 ± 751	737	74.1 ± 23.66	2795 ± 739
Andhra Pradesh	453	54.4 ± 18.39	2290 ±692	533	67.5 ± 22.04	2721 ± 742
Maharashtra	356	59.3 ± 20.78	2040 ± 717	689	67.5 ± 21.93	2313 ± 732
Gujarat	349	55.6 ± 17.65	1974 ± 568	808	64.3 ± 19.73	2198 ± 656
Madhya Pradesh	88	60.0 ± 23.69	1978 ± 582	348	67.4 ± 21.01	2178± 617
West Bengal	248	48.7 ± 22.39	1911 ± 823	526	63.5 ± 24.13	2529 ± 847
Uttar Pradesh	302	63.2 ± 23.69	1990 ± 691	562	69.6 ± 22.04	2173 ± 672

* PER CONSUMPTION UNIT PER DAY.

NNMB-CALORIE AND PROTEIN INTAKE BY MAJOR OCCUPATION FOR DIFFERENT STATES

POOLED (1975-78)

		Labourers			Cultivators	3		Others	
State	n	Proteins	Calories		Proteine	Calorlee	- n -	Proteins	Calories
	11	Mean S.D.	mean S.D.	- n	Mean S.D.	Mean S.D.	- 11	Mean S.D.	Mean S.D.
Kerala	414	37.7 ± 12.91	1718 ± 443	274	49.3 ± 16.00	2040 ± 498	325	49.0 ± 15.76	2015 ± 527
Tamilnadu	243	49.6 ± 20.85	2012 ± 699	294	62.4 ± 22.32	2548 ± 860	365	57.7 ± 20.14	2321 ± 704
karnataka	324	63.2 ± 24.08	2338 ± 730	557	77.0 ± 23.75	2901 ± 739	243	67.0 ± 21.54	2526 ± 684
Andhra Pradesh	342	55.7 ± 18.60	2358 ± 675	375	70.4 ± 22.98	2805 ± 784	269	55.9 ± 17.93	2338 ± 653
Maharastra	222	57.5 ± 21.30	1948 ± 730	450	70.3 ± 22.87	2413 ± 764	373	62.3 ± 19.18	2150 ± 642
Gujarat	226	56.9 ± 18.73	1941 ± 601	604	65.0 ± 19.40	2219 ± 639	327	58.8 ± 19.22	2097 ± 633
Madhya Pradesh	72	57.3 ± 19.85	1905 ± 528	278	69.5 ± 21.72	2221 ± 623	86	61.5 ± 21.06	2059 ± 601
West-Bengal	190	46.7 ± 22.98	1806 ± 779	396	63.3 ± 24.30	2543 ± 864	188	61.3 ± 22.63	2414 ± 826
Uttar Pradesh	215	64.4 ± 23.89	200 ± 691	444	69.9 ± 22.90	2192 ± 696	205	65.1 ± 20.91	2043 ± 627

• PER CONSUMPTION UNIT PER DAY.

MANNE CALORIE AND PROTEIN INTARY FOR HARIJAN, TRIBES AND OTHERS BY DIPPERENT STATES

POOLED (1975-78)

		Others	
n	Calories	Proteins	Calorita
	Hean S.D.	Hean S.D.	Mean S.D.
960		45.0 <u>+</u> 15.83	1916 ± 511
766	2439 <u>+</u> 537	58.3 <u>+</u> 21.80	2361 <u>*</u> 79
696	2435 <u>+</u> 715	72.2 <u>+</u> 23.65	2736 <u>+</u> 75
683	2450 👲 855	62.8 <u>•</u> 22.52	2551 <u>•</u> 78
842	2202 <u>+</u> 734	65.7 <u>+</u> 21.56	2272 • 7
948	1897 <u>*</u> 396	61 .8 ± 19.73	2144 ± 6
305	1995 <u>+</u> 576	67.1 <u>+</u> 22.07	2204 <u>+</u> 6
511	2122 <u>•</u> 719	61.3 <u>*</u> 24.19	2430 ± 8
774		67.9 <u>•</u> 22.72	2113 ± (
•		774	774 67.9 <u>•</u> 22.72

* PER CONSUMPTION UNIT PER DAY.

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NNMB CALORIE AND PROTEIN INTAKE* ACCORDING TO CROP RAISED FOR DIFFERENT STATES

POOLED (1975-78)

State	No crop raised			Some crop raised		
	n	Proteins	Calories	- n -	Proteins	Calories
		Mean S .D.	Mean S .D.		Mean S .D.	Mean S .D.
Kerala	261	40.2 ± 14.40	1752 ± 481	752	45.9 ± 15.95	1952 ± 508
Tamilnadu	410	53.5 ± 20.89	2146 ± 706	492	59.9 ± 21.79	2449 ± 819
Karnataka	306	63.5 ± 24.45	2315 ± 730	818	73.6 ± 23.52	2786 ± 740
Andhra Pradesh	416	53.9 ± 16.13	2278 ± 692	570	66.8 ± 21.99	2701 ± 733
Maharashtra	377	58.8 ± 19.83	2005 ± 656	668	68.1 ± 22.28	2341 ± 754
Gujarat	4B5	57.4 ± 18.17	1999 ± 590	672	64.7 ± 19.91	2225 ± 656
Madhya Pradesh	91	58.2 ± 21.13	1977 ± 592	345	67.9 ± 21.55	2179 ± 615
West Bengal	205	47.5 ± 21.96	1844 ± 755	569	62.8 ± 24.22	2507 ± 866
Uttar Pradesh	300	64.3 ± 24.52	1990 ± 706	564	69.0 ± 21.70	21 72 ± 664

* PER CONSUMPTION UNIT PER DAY

-5

						TABLE-55 (A)									
NNMB -	KERA	ALA	_	MEAN	ANTHROPOMETRIC	MEASUREMENTS	ΒY	AGE	(MALES)	_	1974-79				

Age	He	ight (cm)		Ue	ight (kç)	Arm Ci	soun fer	nce (ca)	Skinf	old at t	ziceps ((20	N
(718)		5 "D .	C.V.	Ŧ	5.0.	C.V.	Ĩ.	5.0.	C .V.		5.0.	C.V.	****	
00	64.^2	5.97	9.33	6.47	1.53	20.37	12.54	1.+2	11.35	9.26	2.81	3C.3A		6
01	73.07	6.26	8.56	8.27	1.43	17.2#	12.46	1.54	11.94	5.67	3.54	35+11		10
12	81.37	4.68	5.75	9.92	1.29	13.03	13.26	1.26	9.52	8.25	2.45	29.76	< _	12
03	87.31	7.08	P.11	11.14	1.71	15.33	13.65	1.41	10-36	8.52	2.82	33.09		- 12
04	93.56	6.16	6.59	12.60	1.83	14.49	14.04	1.11	9.32	8.18	2.56	31.30		17
05	99.93	8.26	P.06	14.01	2.63	18.77	14.05	1.13	8-23	7.07	2.34	32.99		16
06	105.35	7.39	7.01	15.34	2.62	17.03	14.32	1.17	A.18	6.58	2.04	31-82		13
07	109-67	8.37	7.36	16.25	2.29	14.19	14.48	1.39	9.60	6.64	2.35	35.34		13
0.	115.52	7.57	6.55	18.57	4.14	22.31	15.19	2.33	15.31	6.38	2.52	39.58		18.
09	120.01	5.47	5.72	19.74	2.68-	13.60	15.32	1.57	10+27	6.35	2.39	37.61		114
10	123.80	7.05	5.69	21.20	2.14	19.82	15.41	1.60	10.39	5.74	2.04	35+55		20
11	127-67	7.51	5.68	23.08	3.19	13.79	15-91	1.37	8.61	6.10	2.28	37.42		15
12	131.41	7.62	5.00	24.44	3.88	15.86	16.47	1.72	10+42	6.10	2.36	34.76		30
13	135.53	7.97	5.91	26.63	4.09	15.34	17.05	1.76	10.30	6.30	2.41	38.24		21
14	141.92	4.73	6+15	30.22	5.05	16.73	17+84	1.44	10.33	6-2A	2.33	37.06		21
15	146.73	7.72	6.53	32-76	7.06	21.49	18.46	2.31	12.26	6.61	2.17	32.85		13
16	152.24	9.69	6 - 37	37.49	7.28-	19.42	19.96	2.17	10.88	5.0A	2.08	34.28		13
17	158.02	8.32	5.26	42.31	7.01	16.56	21+52	2.29	10.69	6.07	2.21	36.43		. 9
10	160.08	7.23	4.52	43.73	6.41	14.67	21.97	2.05	9.33	6.47	2.87	44.37		- 184
15	1 60.00	8.12	5.38	44.05	5.78	13.13	27.36	1.95	8.71	6-58	2.56	38.77		5
	142-40	7.29	4.49	48.06	5.92	12.31	23-31	2.05	8.79	6.24	2.62	42.05		3 0
	162.07	7-19	4.38	48.80	6.70	13.73	23.93	2.08	8.68	6.03	2.71	44.87		23
	164.75	6.58	4.07	48.46	7.31	15.99	24-23	2-12	8-77	6+41	2.40	45.16		1.4
	140.85	6.76	4.33	47.95	7.69	16.03	23.81	2.27	9.53	6.03	3.09	51.29		16
	141-75	6.12	3.78	48-85	7.49	15.14	23.99	2.30	7.58	f-12	2.83	46-26		17
	160.01	6.98	4.36	46.81	7.28	15.55	23.44	2.34	10.17	6-29	2.75	43.75		13
	167.51	6.37	3.97	46.36	7.99	16.51	23.27	2.70	11.60	7.03	3.75	53.37		11
	160.01	5.71	3.69	47.57	7.48	15.72	23.50	2.53	10.78	7.04	3.37	47.84		- 9j
	157.34	6.85	4.30	45.95	8.33	18-12	22.33	2.87	12.77	6.76	3,17	46.86		18

TABLE- 55 (B)

-	triceps (an)	fold at :) Skin	enco (ca	licunfer	Arm Ci)	sight (kg	Ų	m)	alght (c	B H(45
	C.V.	5.0.	T	C.V.	s "D "	X	C.v.	5.0.	x	C .V.	5.0.	-	(yr
	27.42	2.51	9+17	10.87	1.37	12.62	20.57	1.32	6.37	10.12	6.35	62.78	00
	32.67	2.82	8.63	9.59	1.22	12.74	15.94	1.24	7-80	7.32	5-23	71.++E	01
1:	32.08	2-62	8.18	11-10	1.43	12.85	15.32	1.43	9.37	7.66	6-10	79.67	0?
1	33.13	2.93	8.94	7.48	1.02	13.63	13.04	1.42	10.93	6.94	6-01	86.57	22
13	30.09	2.65	8.80	8.18	1-14	13.95	13.08	1.60	12.24	7.92	6.50	92.63	24
-11	31.10	2.41	7.74	8.8*	1.25	14+07	14.71	2.03	13.81	4.77	6.75	59.7 E	05
11	32.69	2.26	6.92	9.26	1.30	14.12	15.60	2.30	14.72	7.82	8.13	103.88	06
12	33.90	2.28	6.74	8.77	1+27	14.44	15.96	2.64	16.55	6.21	6.84	110-11	07
13	32-51	2.15	6.62	8.07	1.19	14.76	16.77	2.94	17-56	7.19	8-35	113.66	68
11	38.03	2.50	6.58	9.36	1.41	15.07	15.34	2.96	19.29	5.68	6.76	119.12	09
14	(88+34)	6+54	7.40	10-16	1.59	15.62	20.76	4.45	21.43	6.87	8-43	122.68	10
	33.53	2.52	7.51	11.23	1.85	16.50	16.85	3-91	23-21	5.73	7-26	126.75	11
10	34.30	2.34	6.73	19.55	1.77	16.80	20.26	5.07	25.04	7-16	9.42	131.57	12
<	31.58	2.35	7.45	9.93	1.76	17.69	20.17	5.66	28.04	6.90	9.34	135.42	13
12	37.62	3.05	A-10	12.34	2.31	18.73	23.06	7-31	31.71	6.85	7-68	141.35	14
	37.56	3.45	8.95	10.85	2.14	19.76	20-08	7.02	34.96	6.76	9-43	145.36	15
11	39-11	3+87	9.88	10.44	2.19	21-01	15.04	6.16	38.89	4.50	4.61	147.08	16
	35.42	3.98	21.23	9.76	2.13	21.79	14.36	5.86	44.76	4.54	6.76	148.72	17
12	39.32	4.05	10.29	11.15	2.43	21.75	14.62	6.06	41+43	4.41	6+58	149-37	1.6
- Ē	41.44	4.31	10.41	9.54	2.12	22+2*	13.55	5.95	43.17	3.99	5.97	147.49	19
45	42.35	3.97	9.38	10-47	2-31	22.11	12.90		42.69	4.406	6.08	153.06	
. 44	46.22	4.11	8.89	10.34	2.29	22.13	13.64		42.65	3-79	5.67	149.79	
- 31	44.72	4-07	*.11	11.15	2.51	22.33	14.44		42.57	3.99	5-96	149-55	
30	46.29	4.07	8.78	11.78	2.55	22.47	16.38		42.22		5.68	149-01	
22	49.51	4.67	43	12+39	2.74	22.14	18.51		41-16		6.47	144-30	
20	\$5.45	5.09	9.17	12.40	2.71	21.46	19.03		41.32		6.01	148-11	
14	51.44	5.11	9-93	12.46	2.72	21-92	19.01		41-23		5.79	147.45	
ं ।	58,84	5.47	9.30	12.45	2.75	21.76	19.73		40.15		6.43	146.78	
22	46.55	3-71	7.96	12.(5	2-54	21.13	14-67	7-21	3R. 76	4-30	6. 28	143.92	# 60

NNMB - KERALA - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1974-79

61

NNMB -	TAMTT . 1	NADII -	MEAN	ANTHROPOMETRIC	MEASUREMENTS	BY	AGE	(MALES)	-	1974-79
TATATATO -	TUNTU			ANTIMOLONGINIC			AGE			

_	He	ight (cm)	Vet	.ght (kg)	Arm Ci	rcunfere	nce (cm)	Skinfo	old at t	ricepe (am) <u> </u>
Aq• <u>yr</u> ¢)	<u> </u>	3 ,0,	<u> </u>	Ŧ	5.0.	C. <u>V.</u>	<u> </u>	<u> </u>	C.V.	Ŧ	5.0.	C.V	
00	64.64	7.89	12.20	6.47	1.94	29.96	11.63	1.45	12.49	8.66	2.31	26.73	-14
01	73.4E	5.32	7.24	8.43	3.67	43.49	12.21	1.16	9.70	8.57	2.35	27.42	17
02	80.1 1	8.12	10.13	9.55	1.73	18.16	12.47	1.48	11.85	8.41	2.12	25.21	16
03	84-15	8.25	9.57	11.04	2.03	18.36	13.15	1+23	9.31	9.27	2.30	24.79	21
04	94.34	9.14	9.67	12.84	3.13	24.39	13.42	1.28	9.55	R.76	2.42	27-64	22
	10C-6C	4.87	4.63	14.10	1.89	12.79	13.55	1.03	7.62	7.91	2+28	28.84	15
06	106.38	6.92	6.50	15.43	2.21	14.30	13.71	1.13	8.25	7.26	2.02	27.79	16
07	110.45	8.27	7.49	16.67	2.97	17.83	13.93	1.18	8.43	7.13	2-02	28.27	20
68	115.78	6.72	5.61	16.25	2.40	13-13	14-16	1.13	7.94	6.81	1-94	28.51	17
09	120.00	6.17	5.16	19.93	2.98	14.74	14.72	1.22	8.28	6.45	1.58	24.47	19
10	124.91	6.47	5.18	21+83	3.12	14.31	15.12	1.31	8.68	6.41	1.81	28.27	21
11	129.40	6.71	5.19	23.49	3.54	13.06	15.74	2.04	12.98	6.59	2.21	33.58	15
12	133.79	6.76	5.05	25.49	3.85	15-10	16.13	1.63	10.09	6-65	2.22	33.35	24
13	134.67	6.50	4.69	27-84	3.76	13.51	16-67	1.59	9.52	6.66	2.06	30.98	20
14	144.59	8.00	5.57	31.74	6-27	19.75	17.55	2.26	12.88	6.87	2.20	31.77	12
15	147.53	7.61	5-16	33.05	5.57	16.85	18.21	4.15	22.80	6.54	2.01	30.69	12
16	153.42	8.16	5.31	38.35	6.02	15.69	19.33	1.87	9.69	6.64	1.93	29-11	15
17	159.98	6.90	4+31	42.83	5.43	12.67	20.43	1.73	8.47	7.15	2.06	28.82	13
18	159.47	9.05	5.68	43.69	6-12	14.00	21.01	1.83	8.71	7.42	2+34	31.69	11
19	161.59	6.87	4.26	46.50	5.55	11.93	21.72	1.81	8.34	7.12	2.16	30.27	11
-	162.17	6.81	4.20	47.45	6-07	12.78	22.14	1+91	5+61	E.68	2.41	36.04	41
	163.01	6.65	4.08	49.76	7.56	15.23	22.70	2.98	9.16	7.28	3.59	49.32	34
	161.40	7.57	4.68	49.48	7.72	15.60	22.67	2.29	10-12	7.24	3.40	46.93	26
	162.75	6.15	3.76	50-30	7.89	15.69	22.79	2.37	10.41	7.54	3.84	59.96	35
	163.07	6.64	4.07	52.36	9-29	17.75	23.19	2-47	10.64	9.33	4.69	56.31	25
	163.36	6.59	4.03	51.44	9.67	14.60	23.00	2.61	11.33	7.69	4.16	54.22	2:
-	162.96	5.89	3.61	52.36	9.81	18.74	23.34	2+61	11+16	8.51	4.45	52.29	14
	162.12	5.51	3.40	50.15	8.77	17.47	22.63	2.61	11.55	7.73	3.69	47.79	12
-	161.19	6.41	3.98	48.36	9.41	19.45	22.02	3.22	14.62	7.84	3.59	44.60	24

TABLE-56 (B)

NNMB - TAMIL NADU - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1974-79

	riceps (mm)	ld at t	Skinfe	nce (cs)	rcumføre	Arm C1)	ight (kg	Vel)	ight (cm	He	• • •
N 	C.V.	\$.0.	x	c.v.	5.0.	×	c.v.	\$.D.	×	C.V.	_ 5.0.	x	Age (yrs)
18	63.86	5.70	8.93	14.01	1.57	11.18	80.55	4+90	6.09	69.49	45+81	65.92	00
149	24.86	2+11	P.47	12.79	1.52	11+74	51.33	4+13	8-05	8.00	5.75	71.80	01
193	27.01	2.47	9.16	11.09	1+38	12.48	31.14	2.93	9.47	13.01	10.43	80.17	02
206	26.24	2.52	4.60	14.67	1+37	12.87	16.41	1.72	10-49	9.91		85.43	03
208	25.41	2.33	•.15	19.29	1+37	13.35	14.92	1+67	12-02	16.21	14.73	90.83	04
144	26.57	2.24	9.45	7.81	1-96	13.60	13.45	1-84	13.67	9.65	9.60	99.50	05
130	78.86	6.67	P.+6	8.66	1-19	13.86	16+38	2.38	14.56	5.65	\$.70	104.33	06
168	30.75	2.34	7.59	7.43	1.04	14.00	14.04	2.28	16.20	5.51	6.33	109.42	07
169	27.87	2.09	7.50	7.98	1-15	14.48	19.77	3-56	18.00	5.16	5.74	115-07	0.8
143	29.24	2.16	7.41	9.45	1.41	14.94	13.71	2.68	17.56	6.76	6.11	120.05	07
170	24.55	2-27	7.67	10.16	1.59	15.64	14.68	3.20	21-81	5.91	- 7.40	125.10	10
Ť•3	28.94	2.25	7.78	8.02	1.27	15.88	14.71	3.45	23+47	5.62	7.24	128.81	11
191	301	3-28	*.41	12.03	2+04	16.95	17-84	4.77	26.71	5.71	-7.66	134.04	12
131	29.13	2.40	4.22	12.45	2-17	17.62	24.50	5.56	30.04	5.59	7.81	140.02	13
12:	34.34	3.77	9.82	11.#6	2.23	18.79	16.71	5.92	35.42	5.37	-7.86	146.14	14
103	39.43	4.29	1 . 76		2.25	19.97	15.02	5.72	38.11	4.06	16.01	147.62	
130	35.03	4.09	11.69	11.00	2.26	20.50	14-51	5.75	37.82	3.79	5.63	148.65	16
	28.07	3.27	11.65	A.79	1495	21.09	10.13	4.19	41.33	3.40	- 5.10	150.23	17
111	34.57	4-07	11.84		3-69	21-46	13-07	5.53	42-34	3.48	: 5-25	150.82	18
91	33.41	4.05	12.13	*.74	2.10	21-60	11.22	4.63	43.04	3.70	>5.60	151.47	17
44	39.45	4+25	10.43		1.99	20.94	13.91	5.99	43.GA	3.82	:5.77	151.22	C-24
49	44.64	4.75	10-64	14.14.	3.01	21.22	15.(7	6.48	43.00	3.73	j 3.6 3	151.34	5-29
341	53.07	5.47	11.07		2-52	21.46	15.75	6-80	43.19	3.47	- 5.24	150.76	0-34
341	49.42	5.79	11.71		2-58	21.85	18.15	8.01	44.17	3.58	5.39	150.76	5-39
204	52.05	6.14		14.26	3-10	21.74	20.69	9.23	44-62	7.32	10.97	147.81	8-44
211	46.45	5.55		13.76	3.03	22.01	14.72	8.67	44.07	7.11	10.65	149.77	5- 49
124	47.78	5.32	11.13		2.45	21.27	19.13	7.98	41.72	3.60	5.37	149.22	
129	55.12	6.4.		13.741	2	11.42	21.00	- 33	42.82	3.79	5.66	149.41	
191	46.47	4.55	9.85	12.457	2.56	12.53	19.81	7.94	40.08	4.12	6.12	146.42	

TABLE-	57	(A)
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NNMB – KARNATAKA	- MEAN	ANTHROPOMETRIC MEASUREMENTS	BY	AGE	(MALES)	- 1974-79
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	-	ight (as)	Ve	lght (kg	Velght (kg)			ande (ea)	Skinf	old at t	zicepe (a	•)
Age (yts)	Ħ	\$.D.	C	X	\$.0,	_C.V		S.D.	C.V.	Ĩ		C . Y .	-
	61.92	6.25	10.09	6.11	1.57	25.65	12.57	1.53	12.17	7.99	2.35	29.44	271
41	72.94	4.72	6.46	8.01	1.22	15.24	13.16	1.25	9.47	7.39	2-13	28.86	230
02	80.58	5.41	6.72	9.42	5.28	53.79	13.59	1.35	9.91	7.65	2-10	27.42	251
•3	87.86	5.37	6.17	10.88	1.46	13.43	14.04	1.24	8.81	8.17	1.98	24.26	- 330
44	93.71	6.11	6.53	12.48	1.76	14.17	14.32	1.04	7.24	7.74	1-87	24.38	37:
05	109.32	6.33	6.27	13. 12	1.81	13.09	14.37	1.10	7.65	7.02	1.82	25+87	241
06	186.55	6.92	6.50	15.35	2.08	13.54	14.55	1.09	7.49	6.38	1+67	26-17	333
47	112.43	6.81	6.95	16.95	2.39	14.08	14.87	1.29	8.66	5.76	1.67	29.29	26:
68	118.30	7.46	6.25	18.97	2.79	14.73	13.26	1.22	8.01	5.65	1.62	28.73	35
19	121.98	7.02	5.75	23.21	3.03	15.60	15.71	1.43	7.09	5.26	1.46	27.78	221
	126.6 1	7.23	5.75	22.31	3.32	14.90	16.23	1.27	7.44	5.42	1.52	27.94	35
ii	131.91	7.79	5.91	24.37	3.64	14.94	16.71	1.61	9.65	5.37	1.75	32.52	21
12	136.27	A.33	6.11	26.72	4.57	17.10	17.33	1.54	8. 70	5.36	1.61	30.07	42
	141.60	8.22	5.61	29.27	4.75	16.25	19.15	1.71	7.40	5.21	1.44	27.69	23'
	147.2:	9.10	4.23	33.35	6-48	19.45	19.17	2.04	10.66	5.14	1.59	30.96	25
	152.45	8.82	5.79	36.64	6.64	18.13	19.07	2.10	16.96	5.05	1.59	31.43	17
	156.96	7.22	4.60	40.64	6.05	14.90	21.27	2.05	9.65	4.90	1.35	27.47	243
	160.67	6.45	4.02	43.08	5. 72	13.75	21.75	2.00	7.17	4.85	1.33	27.29	180
	163.41	16.16	9.89	45.98	6.01	13.06	23.00	2.35	10.27	5.20	3.05	56.74	29
	163.07	7.67	4.71	47.87	7.59	15.86	23.2*	1.90	P-16	5.16	2-03	39.33	/ 12
	164.12	6.35	3.87	48.68	5+67	11.65	23.97	1.76	8.18	5.19	1.97	37.95	572
-	164.65	6.15	3.73	*0.01	6.74	13.47	24.58	2.05	8.35	5.21	2+34	44.97	
	164.27	6.56	4.00	47.05	7.16	14.35	24.45	2.24	7.17	5.38	2.85	53.45	44
	163.97	6.43	3.92	49.95	7.27	14.60	24.57	2.35	7.58	5.66	2.97	52.47	50
-	164.27	6.26	3.81	50.08	7.86	15.69	24.40	2.40	7.63	5.66	2.67	51.13	44
	163.36	6.28	3.84	49.54	R.03	16+21	24.26	2.51	10.33	5.99	3.31	55.25	35
	163.46	5.96	3.65	48.70	7.77	15.96	23.75	2.53	10.63	5.70	2.86	50.23	261
	162.60	6.67	4.10	47.65	7.58	15.91	23.49	2.63	11.20	5.76	2.75	47.77	201
	162.05	6.77	4.18	46.66	8.78	18.81	22.75	3.01	13.22	6.14	3-16	51.48	440

TABLE-57 (B)

.	He	ight (cm	n)	Ū,	ight (k	a)	Arm Ci	rcumfer	ence (cm)	Skinf	eld at t	ricepe (m	•)
Age (y28)		3.D.	c.v.		S.O.	<u>c.v.</u>	×	\$.0.	c.v.	x	5.0.	C.V	•
90	60.57	5.76	9.51	5.75	1.94	33.78	12-21	1.50	12-28	8.00	2.39	27.90	29
91	77+6 1	6.09	9.62	7.52	1.62	21.50	12.92	1+79	10.08	7.63	2+25	29.51	24
02	78.42	5-34	6.01	8.83	1-49	16.85	13.37	1.32	9-90	7.93	2.13	26.90	26
03	85.64	6.39	7.46	10.50	2.61	24.88	13.89	1-21	8-66	8.57	2.18	25-41	28
04	93.01	6.77	7.28	12.10	2.21	18+27	14.34	1.19	8.30	8.54	2.99	35.03	31
65	79.5 E	7.20	7.23	13.51	1.89	14.01	14.62	1-11	7.61	N+10	2.95	25.36	25
06	104.42	6.76	6.47	14.72	2.10	14.30	14.74	1.18	8.02	7.51	2.07	27.58	31
	111.61	6.57	5.88	16.81	2.43	14.45	15.12	1.27	P.40	6.78	1-92	28.33	25
	117.54	6.72	5.72	18.70	2.61	13.78	15.67	1-24	7.73	6.65	1.79	26.90	32
	122.41	7.61	6.21	20.42	3.30	16.14	16.12	1.42	6.63	6-65	1.75	26.27	24
	127.6 *	7-54	5.90	22.75	4.00	17.56	16.74	1.49	8.90	6.61	1.94	29.27	30
	134-32	7.56	3.62	25.26	4.00	15.84	17.38	1.55	8.92	6.53	1.87	20.71	17
	137.66	8.17	5.43	28.11	5.49	19.51	10.25	1.95	10.68	£.93	Z.30	33-50	32
	143.54	7.69	5.30	32.15	5.49	17.07	19.46	2.03	10.41	7.52	2.22	29.47	20
	147-11	6-39	4.34	35.43	5.72	15.96	20.68	2.14	10.37	N.34	2.61	31.28	19
	149.35	5.90	3.95	38.74	5.27	13-62	21.81	2.21	10.14	9-56	3.36	35.14	10
	151.7C	6.64	4.38	41.76	5.51	13-19	22.90	2.85	12.57	10.31	3-59	34.87	21
	151.37	5.30	3-50	41.77	5.27	12.61	22.74	2.01	8.93	10.38	4.20	40.49	11
	151.61	5.85	3-86	42.28	5.33	12-60	22-83	2.02	8.87	*• 71	4-41	45.36	21
	152.77	6.16	4.03	43.74	5.55	12.68	23.24	1.87	8.07	10.04	3+71	36.98	- 4
0-24	151.46	6-62	4.37	+2.22	3.63	13.34	22.77	2.72	11.73	9+10	3-65	40.10	59
	151.65	5.47	3.74	42.79	6.03	14-10	23.02	2.40	10.45	R.75	4.16	47.56	65
0-34 3	151.84	5.66	3.73	42.78	6.52	15-18	23.22	2-54	10.74	8.71	4.31	49.44	52
5-39	151.52	5.93	3-91	42.46	6.70	16.26	23.01	2.45	10.67	8.53	4.29	50.23	46
	150.76	6.25	4-15	41.93	6.82	16.26	23-04	2.70	11.72	A.70	4.66	53.49	31
	150.26	5.76	3.83	41-63	7.97	17.14	23-02	2.94	12.78	8-67	4.74	54.68	26
	130.28	5.34	3.55	41-67	7-19	17-26	22.92	3.01	13-15	-10	4.74	52.63	22
	149_44	5.62	3.76	41-29	8.63	20+87	23.07	3. 3H	14.64	7.51	6.06	63.78	17
)# 60]	L48_25	6.00	4.05	39.28	7.23	18-41	21.94	3.07	14-00	7.74	3.87	49.95	39

NNMB - KARNATAKA - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1974-79

TABLE-58	(A)
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•	, He	ight (ca)	, V	eight (k	9)	Arm Ci	rcuafer	ence (cm)	Skin	'eld at t	irlamps (m	•)
Aq. (y <u>r</u> s) 🛣	5.0.	<u> </u>	<u> </u>	\$_0.	<u>.v.</u>	<u> </u>	3.0.	_ C.Y.	Ŧ	\$.0.	C.V.	
60	64,51	5.95	9.21	6.10	1.44	23.51	12.37	1.79	14.49	6.86	1.71	24.89	17
01	73.71	5.21	7.07	7.92	1-50	18.99	12.67	1.67	13.18	6.65	1-76	26-52	17
02	79.42	6.52	8+21	9.45	1.63	17.22	13-26	1.52	11-46	7.13	1.00	25.27	19
03	86.27	5.59	6.48	10-97	1.65	15-04	13.60	1.12	8.18	7-41	1.76	23+74	24
04	93.63	6.39	6.83	12.60	1.77	14-04	13.02	1.31	9.47	6.96	1.91	27.39	- 31
05	100.09	6.64	6.63	14.01	2.02	14.41	14.05	1+18	8.43	6.34	1.65	26-06	- 21
¢6	106.12	6.17	6.12	15.46	2.08	13-45	14.20	1-57	11-04	5.79	1.71	29.50	- 21
07	112.15	- 5.42	5.72	17.43	3.62	20.78	14.68	1.78	12.14	5.63	2.67	47.46	- 29
\$8	117.44	7.50	6.38	18.89	3.07	16-26	14.76	1.26	6-51	5.12	1.49	28.90	- 31
09	121.72	6.56	5-39	20.29	2.55	12.56	15.31	1.10	7.70	5.32	1.64	"C.RO	22
L O	126.8 3	7.10	5.60	22.50	3.87	17.22	15.88	1-44	9.07	5.16	1.60	31.01	27
11	130.41	6.77	5.19	23.59	3.03	12. 72	16.13	1.26	7.80	4.96	1.24	25.33	17
12	135.07	7.30	5.41	26.20	3.#3	14-63	16.73	1.81	10.*3	5-14	1.54	27.97	- 33
13	140.76	7.18	5.10	29.11	4.76	16-34	17.58	1.79	10.16	5.48	1.68	30+65	17
14	145.98	7.49	5.13	32.36	5.10	15.77	18.38	1.80	9.82	3-21	1.79	32.57	21
15	150.65	8.44	5.60	35.30	6.22	17.63	19.39	1.43	9.42	5.22	1.63	31.21	15
16	156.34	8.17	5.24	40.12	5.80	14.46	20.56	2.13	10.34	5-14	1.77	34.40	18
17	158.91	6.54	4.12	42.20	4.98	11.00	21.22	1.79	8.45	4.98	1.60	32.03	13
L M 👘	163.72	5.80	3.61	45.18	3-56	12.31	22.31	2.07	9.27	5-21	1.43 1	27.39	20
19	161.62	6.38	3.95	46.60	5.35	11.48	22.89	2.00	e.72	5+34	1.64	30.72	11
-24	162.56	7+26	4.47	48.17	6.00	12.45	23.31	2.22	9.51	5.19	1.01	34.75	45
- 29	163.42	7.35	4.32	49.63	6.60	13.20	23.71	2.33	9.01	5.29	2.06	36.87	37
- 34	163-0 0	6.49	3.98	54.26	8.12	16.16	23.75	2.39	9.99	5.46	2+69	47.31	39
- 39	163.68	6.59	4.34	10.62	8-61	17.00	23.98	2.42	19.10	2.66	3.22	56.83	41
-++	162-38	6.66	++10	ª0.10	8.92	17.01	23.84	2.47	10+38	5.83	2+97	49.79	34
49	162.46	7.27	4.48	49.62	8.02	16-16	23.47	2.56	10.91	5+68	2.52	44.32	25
-54	162.98	6.37	3.91	51.38	10+13	19.71	23.69	2.95	12.47	6.41	3.09	46.20	18
- 59	162+54	6.64	4.11	34.11	9.87	19.69	23.21	2.94	12.67	6.21	3-37	54+29	- 14
= 6 0	161.97	8.57	5.31	47.62	8.47	17.8C	22.25	2.57	11.53	5.71	2.36	41.31	24

TABLE-58 (B)

NNMB - ANDHRA PRADESH - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1974-79

	He	sight (c	m)	¥.	sight (k	g)	Arm Ci	l roum fer	ence (cm)	Skin	feld at t	riceps (
Age (yrs)	X	5. 0.	C.V.	7	5.D.	C.V.	×	S.D.	C.V.	ž	5.0.	C.V.	N
00	64.0 E	٩.26	8.21	6.02	1.32	21-85	12.34	1.54	12.51	7.02	1.67	26.75	- 16
31	72-17	4.55	6.30	7.40	1.45	19.55	12.45	1.69	13.55	6.66	1.75	29.23	19
95	82.94	51.44	62.92/	9.74	6.07	62.36	13.26	1.56	11.79	7.96	3.99	50.04	18
93	84.30	6-28	7 - 36	10.53	1.75	16.61	13.51	1.47	10.35	7.65	1.85	24-11	24
Q 4	92.98	6.10	6.56	12.32	1.71	13-89	14.01	1.34	9.56	7.60	2+05	26.97	27
65	96.0t	17.86	18.44"	13.98	2.95	21.08	14.17	1.42	10.03	T.02	2.10	29.88	1 7 9
06	104.03	9.59	9.22	15.17	3.59	23.68	14.36	1.14	7.95	6.43	1.84	28.58	23
07	111.52	6.47	5.40	16.82	2.37	14-08	14.55	1-23	8.48	5.98	1.76	29.50	24
08	116.6 4	7.37	6.32	18.35	3.23	17-58	15-12	1.32	8.70	5.80	1.70	30.61	28
0 7	122.31	6.51	5.33	20.36	3.02	14.65	15.79	1.30	6.74	6.14	1.72	29.01	20
10	127.20	7.26	5.71	22.70	3.58	15.75	16.33	1.63	10.00	6.14	1.94	31.53	25
11	132.64	7.94	5.98	25.22	3.70	15.47	16.96	1.61	7.49	6-27	1.92	30.65	15
12	137.01	6.87	5.00	28.31	4.87	17.20	10.10	1.78	9.82	6.75	2.22	32.92	21
13	142.71	6.95	4.07	31.94	5-01	15.70	19.19	1-78	16.33	7.39	2.33	31.54	12
14	146.54	5-66	3-86	35.63	5.31	14.91	20.25	2.12	10.46	7.91	2.93	37.32	13
	1/8.61	5.49	3.96	38.43	5.50	14.31	21.17	1.78	9.34	8.93	3.10	35.58	10
	149-52	5.35	3.58	37.64	5.31	13.40	21.46	2.21	18.28	7.44	3.70	39.16	15
	150.62	6.07	4.35	41.72	6.32	15.16	21.90	2.52	11.49	.54	3.67	38.69	
	151.07	6.49	4.29	42.55	5.66	13.31	22.16	2.39	10.36	9.23	3+73	40.38	17
17	150.46	3.74	3.81	41.61	5.30	12.73	22.16	1.94	8.30	7.44	3.43	36+31	5
-24	151.11	6.03	3.99	42.50	5.91	13.90	22.11	2.34	10.60	8.64	3.70	42.82	48
	151.34	6.10	4-03	42.94	7.02	16.35	22.24	2.32	10.42	1.32	4.22	50.76	51
	150.73	6.08	4.03	42.07	6.55	15.57	22.16	2.48	11.19	7.97	3.92	47-11	46
-39	150.52	5.55	3.68	43.15	7-61	17+64	22.60	3.00	13.26	8.47	4+63	54.64	
	150.37	5.82	3.97	42.68	7.95	18.62	22.6	3.84	13.38	8.53	4.36	51.16	25
	130.69	6.12	4.96	43.60	8.76	27.10	22.71	3-10	13.66	6.69	4.34	47.73	21
	150.42	4.69	3.25	43.12	8.21	19.05	22.45	3.39	15.11	8.87	4,79	53.98	13
	151.1 9	5.54	3.67	42.99	8.83	20.55	22.32	3-35	15.00	8.60	5.08	59.13	12
	147.92	6.29	4.25	40.64	9.36	23.02	21+61	3+17	14-66	7.57	4.35	57.47	21

	Ne	ight (c	n)	Ve	ight (kg)	Arm Ci	revefere	ence (oa)	Skinf F	eld at t	ricept (M) (
Age (778)			C.V.	<u> </u>	5.0.	<u>C.Y.</u>		_3.Ra	C.¥.	<u>×</u>	3.0.	C.Ve.	
+0	62.84	6.18	9.83	6.07	1.57	25.77	12.57	1.68	13.37	8.67	2.72	31.37	25(
ŧ1	71.62	5.12	7.15	7.96	1.34	16.87	12.75	1.34	14.50	6.38	2.39	28.40	17:
92	78.24	5.37	6.87	7.35	1.97	21.11	13.42	2.03	15.11	8.89	2-13	24.01	18
03	84.66	6.13		10.63	1.59	14.76	13.61	1.16	8.55	7.11	2.32	25.47	23
	91.11	6.55	7.19	11.94	1.74	14.89	13.93	1.87	13.45	8.51	2.57	30.42	31
05	78.65	5.72		13.56	1.93	14-26	14.07	1.27	9+03	7.97	2.02	25.40	17
46	143.74	7.64		14.75	2.04	13.62	14+11	1.16	8.21	6.99	2.32	33-21	22
07	109.01	6.77		16.18	2.35	14.52	14.34	1-04	7.25	6.54	2.25	34.24	24
46	115.56	6.70	5.80	18.05	3.67	17.00	14.64	1.33	7.07	5.75	1.65	32.14	24
67	120.65	- 6-38	5.45	19.83	3.73	18.79	15+15	1.35	8.88	5,76	1+45	33.40	18
-10-	*126.40**		* * 6.66	22.12	4.31	19.49	15.69	1.44	9-20	5.82	1.84	31.95	25
11	130.57	-7-50	5.74	23.66	3.40	14.35	16.23	1.72	10.61	6.22	2.27	36.50	18
12	134.89	7.87	5.84	25.92	4.45	17-16	16.82	1+87	11-11	5.75	2.89	36.24	24
13	139.70	8.73	6.39	24.72	5-67	19.80	17.21	1.7e	10-33	5,91	2.28	38.50	19
- 14 -	144.77	7.48	6.35	32.09	5.97	18.59	18.14	2.07	11.50	5.97	2.17	36.57	20
15	151.68	9.36	6.17	36.61	6.22	16.97	19.25	2.21	11.46	6.28	2.47	39.74	13
16	157.45	38.55	24-18	48.26	6.77	16.82	20-44	2.24	10.77	6. 16	4+15	64.13	10
17	159-61	6.04	3.74	43.25	6.98	16-13	21.33	2+17	10-26	6-15	2.42	39.33	17
10	160.75	7.23	4.51	45.33	5.50	12.13	22-24	2.21	9.93	6.06	2.27	37.50	,22
	162.60	5.93	3.65	46.54	4-82	10.36	22+55	1.73	7.65	6.02	2-10	34.82	15
	163.01	6.72	4.12	47.66	6.36	13.34	23.20	2.09	9.03	6.15	2-63	42.67	45
-	163.20	6.10	3.78	47.44	6.82	13.79	23.69	Z.24	9.44	6.63	3.44	51-76	33
	163.48	6.87	4.20	50.17	7.62	15.17	23.78	2.52	10.59	7.20	4-17	57.861	34:
	162.4 2	7.32	4.51	50-32	8.67	17.23	23.94	2.57	10.75	7.42	4-57	61.57	41
	162.70	6.86	4.22	50.20	9.13	18.16	23.94	3-16	13.21	7.43	4-32	57.14	27
	162.35	6-11	3.77	48.93	\$-57	17-52	23.42	2-45	10.47	6.68	3.79	56.66	29
	161.78	6.04	4.22	46-63	0.12	16.71	23.38	2.44	10.44	7.01	3.52	50.24	17
	162.61	6.40 6.95	3.94 4.30	50.71 48.13	9.48 8.43	18.62 17.51	23.87 22.54	2.77 2.71	12.51 12.03	7•90 7•37	4.47 3.99	36.55 54.11	170

TABLE-59 (A)

TABLE-59 (B)

	He	lght (ċ	5	. ". Vē	ight (k	b	Arm Ci	rcuafer	ince (cm)) Skinf	eld at t	riceps (me	
Age (yTS) 🔀	\$.0.	C.V.	, X	5.D.	<u>c</u> .v.	¥.	\$.D.	C.V.	x	5.0.	C.V.	
	62.07	6.32	10.18	5. 24	1.60	27-37	12.07	1.62	13.44	8.72	2.54	29.10	221
•1	71.49	4.85	6.78	7.58	1.41	18.54	12.53	1.44	11.48	8.43	2.61	30.94	12
42	77+1=	5.59	7.25	7.10	3-16	34.70	13.03	1.26	7.67	7+20	2.40	26.08	16
•3	45.90	47.82	35.67	10.14	2.57	25. 30	13-63	2.24	16.44	9.55	4.74	49.45	23
	68.40	12.60	14.26'	11.65	3.12	26.66	13.87	2.25	16.22	7.59	5.04	52.56	26
65	76.87	6.50	6.71	12.78	1.66	12.79	14+31	1.37	9.57	8.39	2.44	2R.37	14
96	1#3.4 5	8-91	7.74	14.53	2.28	15.71	14.35	1.50	10.43	7.71	2.39	31.02	22
\$7	110.04	7.67	6.99	14.26	2-52	15.52	14-63	1-46	9.83	7.22	2.18	30.21	22
••	115.01	8.55	7.44	17-87	2.68	16.07	15-90	1.57	10.47	7.98	Z.80	39.55	24
ê 9	120.28	7-64	6.35	19.71	2.90	14.21	15.67	1.68	10.75	6.95	2.37	34.12	17
10	125-43	8.65	6.87	21+62	4.38	20.24	16.16	1.77	10.76	7.44	2.42	32.57	22
11	132-17	8.40	6.51	24.60	4.52	10.22	16.77	2.07	12.18	7.20	2.49	34-63	14
12	135.66	9-14	6_9C	27.10	4.76	17.55	17.44	2.01	11.71	7.75	2.80	36.05	24
13	139.90	6-18	5.85	30.27	5.33	17.60	18.31	1.68	9.16	6.05	2.96	36.72	12
14	145.96	7.47	5.12	35.06	6.12	17.46	19-82	2.37	21.74	9.45	3.27	34.64	15
15	146.74	6+28	4.28	37.42	6.87	18.41	21.02	2.78	14.17	10.07	3.84	38.18	9
16	149.72	5.89	3.93	39.68	5.46	13.76	21.37	2.03	9.50	11.09	3.75	33-82	14
17	147.50	6-97	4.04	37.01	4.71	11.84	21.76	1.81	8.33	11.16	4.08	36.60	9
18	150.94	5.92	3.92	41.90	5.46	13-02	22.24	2.35	10.56	11.33	3.92	34.61	15
	150.09	5.33	3.55	42.72	5.52	12.85	22.56	1.97	8.71	12.42	4.11	33.08	6
	151.06	5.87	3-88	41.92	5.45	13.01	22.12	2.43	10.97	10-64	4.26	40.02	- 4 Ĵ
	130+55	3.85	3+88	41.76	5-61	13.44	22.16	2.44	11+02	10.07	4.04	40.13	46
	150.20	6+35	4-23	41.08	5.92	14-41	22-10	2.37	10.68	10.10	4.33	42.87	43
	149.76	5.90	3-94	41.76	6.97	16.73	22.49	2.90	12.88	10.48	4.73	45.15	36
	149-69	6.47	4.33	41.43	7.08	17.07	22+41	2.72	12.12	10.27	5.08	49.51	29
	147.42	6.31	4.22	41.74	7.76	10-60	22+60	3.25	14.38	10.97	5.73	52-28	24
	148.32	6.82	4.60	39-97	7.46	18.67	22+12	2.77	13.51	10.95	5.16	47.86	18
	148-15	6.28	4-24	41.02	8.13	19+81	22.32	3.41	15.28	11-08	5.25	47.36	11
× 60	147.22	6.14	4.17	39.43	8.65	21.94	21.63	3.10	14.33	7.87	5-51	55.67	29

Age	H	eight (c	:••)	U	eight (kg	a)	Arm C	l roumfer	ence (cu)	Skin	fold at '	tricepe (88) 1
(yrs		<u> </u>	ر لادع	<u> </u>	<u>\$.D.</u>			S.O.	<u> </u>	Ŧ	5.0.	C . Y .	
	62.33	5.93	9.52	5.83	1.53	26.32	12.19	1.47	12.02	8+07	2.37	29.32	298
01	72.27	4.52	6.25	7.83	1.39	17.75	12.74	1.27	9.98	7.85	1.96	25.01	218
02	78.91	4.63	6+13	9.34	1.45	15.50	13-13	1.29	7. 22	7.99	2.04	25-57	268
03	85.14	6.11	7.18	10.60	1.58	14.79	13.55	1.27	9.41	8.26	2-24	27.05	281
-04	93.35	5.56	5.96	12.40	1.65	13.34	14-02	1.62	12.57	7.83	2-03	23.96	347
05	100.17	9.67	7.66	13.76	2.05	14.97	14.15	1.04	7.38	7.23	1.85	26.03	188
96	105.08	5.56	5.30	15-10	2.14	14-14	14.10	1.06	7.54	6.51	1-80	27.60	202
67	110.40	5.73	5.19	16-38	1-91	11.66	14.40	1.08	7.49	6.28	1.71	27.19	269
68	114.79	5.62	5.07	17.81	2-52	14-16	14+70	1.14	7.75	6.04	1.83	30.22	262
09	117.54	0.34	6.97	19+55	4.54	25-26	15+03	1.42	7.44	6-15	3.89	63.34	211
10	124.05	6.93	5.58	21.25	3-53	16.63	15-57	1.48	9.51	5.95	1.85	31-08	322
11	128.41	7.09	5.52	22.94	3-18	13.85	15.90	1.39	8.75	6.16	1.98	32.13	186
12	132.74	7-01	5.28	25.08	3.69	14.70	16.49	1.38	836	6.35	2.17	34.19	326
13	137.02	£+51	4.94	27.22	4.10	15+08	17.01	1.59	9.33	6.39	2.27	35.54	253
14	143.21	7.13	4.98	30.59	6.73	19.70	17.76	1.87	10.51	6.39	2+38	37.23	533
15	150_8€	7.70	5.11	35.08	6-12	17.43	18.93	1.84	7.67	6.03	2+24	37.23	165
16	156.78	6.28	4.01	39.74	5+58	14.04	20.05	1.78	8-86	6.19	2.21	35.69	235
17	159.72	5.52	3.46	42-82	5+51	12.84	21.02	1.91	9.08	6.36	2.72	142-82	165
18	161.7 <i>E</i>	6.75	4.17	44.77	4.95	11.05	21_87	3.40	15.56	6.09	2.25	36.91	\$22
19	162.41	7.13	4.39	45,48	5.34	11.73	22.11	1.81	5.18	6.15	2.70	43+92	156
	163.73	6.52	3.98	47.65	6.10	12.79	22.03	1.98	F.66	6-14	3.05	49+69	582
-	164-14	6-42	3.90	47.41	6.92	14-01	23.55	2.24	9.50	6-26	3.57	56.93	436
	164.22	6.22	3.79	49.83	7.78	1*+62	23.53	2.34	9.96	6.72	4.13	£1.50	397
	163.67	6.23	3.90	50-93	8.87	17.72	23+66	2.53	10-71	6.88	4.28	62.11	447
	163.72	6.13	3+74	50.52	9-04	17.90	23.75	2.52	10.60	7.33	4.49	61.23	343
	163.7E	23+52	14.43	48.26	9.16	18.97	23-13	2.67	11.4*4	6.83	5.32	73+59	367
	163.43	6.87	4.20	49.59	10.51	21-20	23-10	2.93	12.70	7.47	4.97	66.50	197
	162-89	6-14	3.77	49.17	8.72	17.73	23+17	2.56	11.06	7.18	4.11	57.34	162
>* 60	161.19	6 - 94	4.30	47.02	9.73	20.70	22.23	3.11	13.98	6.90	3.59	51.91	347

TABLE-60 (A)

NNMB - GUJARAT - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES) - 1974-79 65

TABLE-60 (B)

NNMB - GUJARAT - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1974-

-	H	ight (c	n)	V.	ight (kç	a)	Arm Ci	rcumfer	ence (cm) Skini	reld at t	rlceps (m	*)
Ag• (775	_	S.D.	C.V.	Ŧ	5.0.	C.V.	Ŧ	\$.0.	C.V.	x	\$.0.	C.V.	
00	60.41	6.21	10-28	5.34	1.54	28.79	11+79	1.53	12.95	7.79	2.19	28.17	~ž5
01	76.66	4.47	6.33	7.19	1.40	19.54	12.28	1-39	11.33	7.54	2-11	27.99	220
92	77.10	5+13	6.66	8.71	1.53	17.61	12.90	1.25	7.64	8.30	2+18	26.27	233
63	84.77	5.53	6.52	101	1.62	15.44	13.61	1.13	8-23	8.70	2-19	25.17	23
04	92.37	0.38	9.07	11.99	2.10	17.53	14-03	1.53	10.90	8.28	2.20	26.55	30:
05	98.69	5.79	5.87	13.47	1.71	12.69	14.20	1.16	5.14	P-11	2.15	26.50	19
06	103.68	5.95	5.74	14.47	1.96	13.57	14.38	1.14	7.93	7.51	2.17	28.93	23
07	109.62	6-14	5.60	16.32	2+87	17-59	14-63	1.06	7.25	7.01	2.19	29498	21
68	114.98	6.19	5.38	17.73	2.35	13.29	14.89	1.13	7.6°	6.68	1.97	29.54	23
07	119.87	5.71	5.60	19+63	2.86	14+57	15-47	1.16	7.50	6.99	2.02	28.86	16
10	124.11	6.87	5.53	20.97	3.55	16+94	15-93	1.61	10-13	7.17	2.66	37-11	21
11	127.13	7.21	5.58	23+64	3.60	15-23	16. 57	1.33	7.99	7.34	2.46	33.62	16
12	132.70	10.51	7.99	25.23	3.86	15-31	16+97	1.49	8.60	7.45	2.50	33.36	22
13	130.05	6.66	4.62	28.09	4.43	15.77	17-77	1.65	°.30	A.20	3-12	38.03	10
14	143.70	6.80	4.73	32.54	5.40	16.58	19+03	1.°1	16-63	8.58	3-12 3-47	46.50	17
15	147.85	5.59	3.78	36+24	5.82	16.05	20.01	1.94	9.69	9.59	4.00	41.73	15
16	149.02	5.73	3.84	38.03	5.07	13.33	20.89	2.15	16.29	10.62	5.05	47.53	18
17	150.25	5.70	3.79	40.78	5+69	13.94	21+65	2.33	10.77	11.64	5.40	46.37	11
	151.56	5.65	3.72	42.64	5.17	12.13	22.29	2.10	9.41	12.25	4-61	37-66	16
19	151.50	4.89	3.23	42.09	5.05	12.00	22+18	1.90	8.58	12.65	4.91	38.85	11
-24	151.89	5.82	3.83	43.92	5.64	12.85	22.52	2.33	9-28	12.01	4.72	39+29	58
- 29	151.53	5.90	3.90	43.26	6.29	14.55	22.39	2.34	10.45	11.12	5.24	47.12	51
-34	151.31	5.51	3-64	43.43	6 - 89	15.A7	22.44	2.42	10.78	11.02	5.29	47.17	46
	151.40	5.85	3.87	43.92	8.43	19.21	22.80	2.80	12.28	11.10	6.70	60.36	43
-44	150.45	5.53	3-67	43.81	8.69	19-84	23.04	2.97	12.68	11.61	6+47	55.74	37
-49	151.18	5.68	3.76	43.29	8-62	19.91	22.99	3.19	13.07	11.76	6.69	56.90	31
-54	149.91	5.67	3.80	43-91	8.76	17.44	23.05	3.26	14.15	12.26	6.71	54.70	16
-59	149.59	6.49	4.34	43-14	9.13	20.97	22.92	3.26	14.23	11.89	6-91	50.53	16.
# 61	148-51	5.92	3.92	39.96	7_A1	19. 44	21.53	3.08	14.33	9.49	5.77	62.93	30

TABLE-61 (A)

NNMB - MADHYA PRADESH -MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES)-1974-79

_		eight (es	r)	U.	eight (ka)	Are C	l teunfor	unce (cm)			ricept (m	" =
A90 (<u>Y</u> 75)		\$,0.	C.V.	<u> </u>	5.0.	C.V.	Ī.	.0,	<u> </u>	_ T	3.0.	C <u>.V.</u>	
dtii tt		5.59	9.02	6.01	1.40	23.22	11.73	1.56	13.27	7.11	1.88	26.43	121
01	61.90 70.50	6.32	0.76	7.71	1.37	17.73	12.35	1.14	9-21	7.11	1.80	25.34	104
ě2	77.79	6.27	8.06	9-52	1.44	15.13	12.88	1.65	12.82	7.19	2+29	31+93	89
13	63-16	6.79	\$.17	10.76	2.03	18.91	12.91	1.50	11.65	7.00	1.76	25.19	138
44	98.74	6.76	7.67	12.11	1.62	15.04	13.34	1.23	7.25	6.85	2.01	29.42	171
05	99.61	6.20	6.23	14.20	1.98	13.95	13.86	1.17	8-46	6.44	1-66	25.69	135
86	104.96	8.23	7.84	15.78	2.67	17.06	13.72	1.47	7-67	6-24	5-03	et_521	134
87	111.02	7.69	6.93	17.58	4.67	26.70	14.31	2.95	20.641	5.74	3+49	59.24	123
	117.67	7.10	6.14	17.55	3.17	16.20	14.73	1.99	12.69	5.37	1-41	26.09	147
09	122.74	7.46	6.07	20.76	2.91	14.01	14.00	1.32	8.84	5.05	1-15	22.82	86
10	127-6 0	8.53	6.67	23.26	4.07	17.47	15.86	1.80	11+33	5.16	1.35	26.13	146
ii -	132.68	4.64	6.67	25.94	4.39	17.54	16.24	2.00	12+29	5.10	1.06	20.74	77
12	137.53	8.73	6.35	28.27	5.58	19.75	17.22	1.79	10.36	5.66	1.67	29.58	150
13	141.41	19.77	7.62	30.11	7.18	23.83	17.41	2.03	11.68	5.43	1.70	31.27	86
14	147.13	9.26	6.27	34.35	6.62	19.27	18.54	1+87	10.06	5.41	1.50	27.67	105
15	154.06	6.97	5.82	39.80	6.80	17.05	17.47	1.71	9.62	5.47	1.65	30.19	86
	150.79	6.97	4.39	43.42	5.58	12.86	20.70	1.71	8.16	5.33	1.52	28.57	81
	158.67	6-27	3.95	45.01	5-31	11.57	21.74	1.76	6.16	5.82	1.79	30.78	88
-	161.62	6.72	4.15	47.72	6.37	13.28	22.39	2.10	9.73	5.79	1.59	27.23	112
	161.91	4.93	3.05	49.31	5.44	11.03	22.89	1.76	8.56	5.91	1.86	31.49 /	65
	163.52	7.22	4.42	49.83	7.00	14.05	22.95	2.22	9.66	5.76	1.74	30.28	320
_	143.62	7.48	4.57	50.93	6.97	13.69	23.58	2.35	7.77	5.74	2.12	36.92	191
	163.3:	7.68	4.70	47.90	4.53	13.08	23.35	1.77	8.52	5.85	2.56	43.58	160
	163.59	6.70	4.22	40.66	6.85	13.43	23.24	2-16	7.27	5.78	2.24	38.77	· 229
	163.02	6.13	3.76	50.43	7.52	14.80	23.49	2.52	10-72	6.42	3.26	50.75	182
	163.70	6.47	3.76	51.59	8.42	16.31	23.36	2.50	10.72	6-16	2.63	42.67	169
	162.79	7.65	4.70	49.95	6.93	13.87	23.07	2.45	18.62	6.24	2.51	40.14	148
-	163.31	6.04	4.17	48.85	7.62	15.57	23.13	3.36	14.59	5.77	2.06	35.60	80
	162.29	6.69	4.12	48.70	8.67	17.84	22.06	2.70	13-16	5.87	2.17	37.03	182

TABLE-61	(B)
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	He	iight (a)	U(ilght (k	9)	Arm Ci	rcunfer	ence (am)	Skini	old at t	ricepa (mm	5
Age (yrs		5.0.	C.V.	, x	s.0.	C.V.	x	\$.0.	C.V.	Ŧ	\$.0.	C .v	#
00	61+80	5.07	8.21	5.64	1.45	25.78	11.42	1.50	13-14	6.45	1.01	26+42	92
01	70+27	5.24	7.45	7.53	1.56	29.75	11.92	1.16	•.72	5.97	2.01	28.79	- 77
02	76.30	6.78	88.8	8.77	1-62	18.48	12.46	1.59	12.73	7.33	1.68	25.65	- 86
03	83.6 *		9.97	10.55	2-84		12.76	1.47	11.52	6.90	2.20	33.00	146
04	90-67	6-71	7.62	12-07	1.99	16-06		1-21	8.97	6.99	2.02	28.87	135
05	99.73	9-32	7.34	14.07	4-43	31.47	13.55	1-50	11.10	6.35	1.64	25.88	78
96	104.07	8.00	4.27	15.73	2+74	17+42	14.09	1.33	7.42	6-17	1.79	27.05	128
	111.10	4.55	7.70	17-02	2-73	16-03	14.51	1+33	9.15	5.56	1.26	22.69	*5
	116-89	8-25	7.06	19.22	3.08	16.15	15.17	1.59	10.45	5.80	1.53	26.32	138
	122.70	7.86	6-41	21.42	4.02	16-75	15.54	1.56	10.95	5.49	1.59	27.03	63
10	126.81	8.56	6.99	23.47	5+33	22.72	16.45	2.66	16.16	5.71	1.64	28.78	116
11	133.07	7.94	5.97	26-01	4-63	17+82	17-02	2.34	13.76	6.22	1-74	27.92	51
13	135.90	8-26	6-08	28.82	5.75	19.97	17.52	1.85	10.50	6.14	1.72	27+95	103
14	141.70	9+19	6.48	32-51	6-28	19+31	14.77	2.10	11.17	6.41	1.98	30.96	73
_	145.46	6.56	4.51	36.23	6.19	17.08	19.90	2-07	10-41	7.29	2.01	38.54	65
15	148.97	6.51	4-37	40.38	6.50	16-11	21-09	2.37	11.23	7.44	2.47	33.24	79
16	150.95	6.01	3.96	43.36	6.50	15.18	21.84	2.32	10-61	7.65	2+39	31.19	- 71
17	151.22	8.27	5-48	43-72	4.88	15.75	21.76		11.05	8.27	2.75	33.22	42
18	151.05	5.77	3-82	45+32	5-70	12.58	22.40	2.07	9.24	8-14	2.71	33.35	66
17	151.34	6.45	4+26	43.74	5-39	12.32	21.46	2.01	7+47	Y+40	3.29	44.41	30
	150.98	6.01	3.98	44.24	6.54	14.77	22.15	2.07	9.37	7.42	2.66	38.65	255
	156.80	4-11	4.05	44.42	6+10	13.73	21.91	2.17	7.87	7.23	2+64	39.31	243
	150.72	- 20	3.45	44-51	6.06	13-61	22.23	2.60	11.70	7.59	2.79	36.75	233
	150.77	6.12	4.06	44.56	7-14	16-02	82.72	2.34	10.30	7.22	2.97	41.13	218
	150.58	6-02	4.00	43.71	6.91	15.73	22.67	2.43	10.73	7.51	3+38	44.99	179
	150-14	6.47	4.31	44+24	8+27	18.74	22.62	2.77	12.23	7.99	4-03	50.37	139
	147.76	5.99	4-00	43-35	8-41	19.41	22.39	2.17	12-39	7.57	4-19	55.39	- 96
	150-09	6-09	1-06	43.36	8.37	19.34	22.44	2.64	11.76	7.45	3.86	51+77	56
)\$60 	147.86	6.79	4+59	40.65	6.76	16.64	21.33	. 2.69	12.61	6.71	2.26	33.71	147

TABLE-62 ((A))
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NNMB - ORISSA - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES) - 1974-79

	H	elght (c	•)	บ	elght (ke	a)	Arm Cl	FCUNTOT	ence (cm)	Skin	fold at t	riceps (••) _
Aqe . (Y <u>T</u> 6)		5.0.	<u> </u>	x	s.0 <u>.</u>	C.V	X	5.0.	_C.v.	×	5. D.	c.v <u>.</u>	
80	63.75	4.82	7.36	6.42	1.37	21.42	12.70	1.48	11.67		2.20	27.67	30
01	71-41	5.98	8.37	9.46	,10+60;		13.49	3-12	23.09	9.75	11.51	****	54
02	80-58	6-63	8.23	10-23	3.49	34-03	13-44	1-11	8-23	7.92	2.12	26.91	48
۲0	86.94	7-18	8.26	11.11	1-77	15.94	17.96	1.07	7.65	7.75	2.09	21.05	#3
64	93-34	6.71	7+19	12+42	2.05	16.49	14.29	0.97	6.76	7.42	1.63	21.98	69
95	98.84	7.70	7.79	14-17	2.12	14.95	14.57	1.14	7.82	7.21	2+ 71	27.87	62
06	166-19	6.12	5.76	15.93	2 • 30	14-41	14.45	1.04	7.19	6-38	1.84	29.15	75
07	113+25	7.69	6.97	17.79	3.12	17.54	14.81	1.30	8.77	6.43	2-17	33.73	63
28	118-90	9-24	7.77	19.43	3.92	15.56	1 ** 35	1.22	7.96	6.82	2.48	36.36	67
09	119.87	7.39	5.92	23+17	3.29	16.30	15.57	1.28	•.20	6-20	1.66	26.13	44
12	127+37	8-45	6.63	23.50	4.73	20.15	16.34	1.64	103	6.66	2.34	35-15	71
11	133.61	6.43	4.19	27.04	1.59	24.07	17.43	5-18	2 . 0 2	7.99	R.2?	****	47
12	135.00	11.45	8.42	27-64	5.23	18.94	17.67	2.54	8.72	6.74	2.26	33.41	6P
13	139+12	9.12	6.56	29.54	5.23	17.71	18.04	1.58	8.75	6.76	2.39	34.87	36
14	147.72	9.19	6+22	34.34	6.83	19.90	19.19	2.22	11.56	6-43	2.71	42-17	46
15	146.80	A.62	5.87	34.42	6.37	18.51	19.67	2.62	10.27	7.08	3+71	45-32	38
16	154.60	7.18	5.R7	41.68	8.02	123	21.30	2.36	11.08	#.21	3.37	41-11	39
17	159.74	6.63	4.15	15.27	5.14	11-25	21.92	1.60	7.32	8-05	3.46	42.*6	25
16	167-55	7-17	4.47	46.26	6-68	14.50	22.72	2.35	10.40	7.97	3-33	41.84	34
19	161.92	8.06	4.98	47.45	4.91	10.33	23.59	1.43	6.05	5.90	2+62	44.46	21
26-24	161-15	8-15	5.06	48-54	7.26	14.95	23.95	2.51	30.47	7.00	7.78	45.51	138
25-29	162-2 4	5.30	3.88	≈00 0	6-8A	13.74	24.23	Z.08	8.60	R.07	4.09	50.76	107
	162-60	7.12	4 - 39	50.97	7. 44	15.58	24.79	2.13	8.59	8.43	4.28	50.01	100
35-39	164.94	35.84	21.73	51.52	8.69	17.20	25.06	3.19	12.34	8457	4.51	52.5A	107
	161-11	6.02	3.73	49.24	8.00	16.25	24. 15	2.12	R.42	7,94	4.11	51+74	89
	163.46	6.43	4.01	48.A3	7.39	15.12	24.30	2.34	9.61	7.63	3.94	52-31	104
50-54	161.27	7.16	4.44	50.88	8+61	16.93	24.67	2.27	9.20	8.13	4.20	51+62	71
	167-17	7-25	4.53	48.63	8.75	17.99	24.16	2.61	10.79	7.84	3-71	47.30	61
>= 60	169.40	6.72	4.19	46.79	9.44	14.34	23.69	2.12	10.55	8.16	5.91	47.88	117

TABLE-62

(B)

NNMB - ORISSA - MEA	N ANTHROPOMETRIC MEASUREME	NTS BY AGE (FEMALES) - 1974-79
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• • •	H	øight (c	n)	U e	Veight (kg)		Arm Ci	lroumfer	ence (ca) Skinfold at triceps (mm)			>
Age (yrs)	X	5.0.	C.V.	Ŧ	s.D.	C.V.	x	S .D.	c.v.	x	S.D.	C.V.	H
00	61.61	5.56	9.01	6 - 15	1+81	28.50	12.35	1.*1	12.19	9+25	2+15	26.0*	24
21	71.76	9+65	12.05	7 + 75	1+(1	20.75	13.03	1.59	12.25	7.34	1+68	22.47	3:
02	76.30	5.24	6.85	R. 93	1.93	21.62	13.07	1_40	10.70	7.67	2.18	28.44	39
Q 3	86.35	5-41	7.43	10.92	1-89	17.30	13-97	0.99	7.17	7.54	1.93	25.51	61
0.4	92.54	8.77	9.47	11.89	2.12	17-63	14.19	1.08	7+61	7.47	2.07	25.32	6'
35	98.94	5.32	6.39	14.30	4.74	33.15	14+97	4.55	30.35	M.59	7.95	·2+52	61
96	106.22	9.54	8.98	15+54	2+P6	10-41	14.47	0.91	6.11	6. 92	1.85	27.19	61
97	113.2 5	8.11	. 7.16	17.34	3.18	16.33	14,41	1.72	P 25	6.17	1.79	29.02	61
68	116.81	8-31	7.12	19.27	3.69	19-14	13.56	1.47	9.43	6.7*	2.32	34.15	81
69	121-85	FC.8	6.64	20.93	3+54	16+93	16.37	1.60	9+80	7.13	2.40	33-53	
19	128-2€	9.33	7.25	23.79	5+36	22.54	16.76	1.64	10.97	7.15	2.61	36.51	59
11	132	N.89	6.71	26.27	5.07	19.24	17.57	1.56	5.89	P.07	3.24	40-17	41
12	135.84	7.56	5.57	77.2R	5+37	19 . ≮8	17.54	2.22	12.60	7.67	3.91	39-31	51
13	142-31	9.87	6.94	33.43	8.49	25-19	19.69	2.74	13,91	6.97	3.74	41-66	3:
1.4	145.8F	7.21	4.94	36.54	6.71	18.34	20.41	2.46	12.05	9.51	3.91	41.07	51
15	146.99	5.09	3.46	38.69	5.81	15.03	71.53	5.06	4.55	10.43	4-26	45-88	•
16	147.77	7.95	5.38	47.34	6.00	14.08	21.97	2.05	9.39	10.79	4.06	37.92	
17	150.81	7.12	4.12	43.05	5.13	11.92	22.54	1.45	P.20	11.34	4.7.4	34.58	3
1 *	156.95	(44.53	28.16	43.80	5.63	12.46	24.27	10.43	42.92	13.23	11.76	85-11)	4
19	198.92	8.92	6.00	42-66	5+24	12.46	22.75	2.29	10.0#	10.44	3.12	29. AA	1
0-24	149.44	5.95	3.98	43.55	5.67	13.02	22.50	2.01	8.92	10.51	4.28	41.67	13
5-29	149-06	5.87	3.94	41.94	5.48	13.05	22.33	2.12	9.50	10.08	3-54	35+14	13
	148.51	6.35	4 - 07	42.57	5.45	13.74	22.70	2.07	9.13	10+37	4.42	41.75	11
5-39	144.42	5.65	3.81	41.62	6.12	14-19	22.44	2.03	.04	9.90	4.35	43.95	- iī
-44	149.37	5.73	3.84	41.96	7.34	17.4=	22.94	2.42	10.54	14.72	5.34	49.74	- ii
5-49	149.60	5.74	3.97	42.77	6.82	15.04	23.05	2.23	9.67	10.16	4.34	42.74	
	146-24	5.44	4-35	42.75	8,70	20.77	23-61	3.04	12.00	11.47	4,92	42.86	5
	147.1 4	6.10	4-14	38.#2	4.90	12.41	22.09	2.37	19.74	9.38	3.92	41.81	5
	145.03	7.96	5.42	38.09	6.93	10.19	21.42	2.84	13.24	P+ 52	3.53	41.48	10

	•	Height (e	N	U	eight (k	e)	Are (:i roue fe	rence (as	i) Ski	fold at	tricops (***
۹۹ ۲۷۱-	•) ¥	5.0.	C.V.		. م. د	C.V.	. ¥	<u></u>	C .V.		. ۵. ۲	<u>C.Y.</u>	
			-			22.61	11.58	1-14	10.00	6.17	1.65	26+71	166
•0	62.54		8.56	5.43	1.34	15.21	12.32	1.06	8.57	5-86	1.54	26.20	190
01	72.99		5.85	7+82		14.44	12. 41	1.10	8.53	5. 78	1-50	25.01	201
02	\$1.75		5.85	9.64	1.39	21.66		1-02	7.64	5.84	1.34	23.01	189
03	89-13			11.41	2-47 1-51	12.23	13.42	1.07	8.12	5.70	1.59	27.45	298
64	74.07			12.33	2.83	20.08	13.69	1.00	7.28	4.77	1-11	22.33	204
05 06	101.02			14.07	1.85	12-46	13.79	1.02	7.38	4.67	1.18	25.27	203
07	110.54			16.28	2.16	13-26	14.11	1.05	7.41	4.48	0.72	20.51	1 60
Č6	116.01			14.12	2.16	11.93	14.56	1.18	8.10	4.27	0.73	21.67	189
07	119.90			19.62	2.53	12.92	14.95	1.07	7.32	4.32	0.91	21.17	190
10	124.19			21.16	2.57	12.14	15.49	1.05	6.47	4.20	4.85	20.28	182
11	127.96			22.61	2.99		15.84	1.21	7.61	4-18	0.87	21.27	169
12	133.08			25.05	4.22		16.42	1.34	8.14	4.33	0.91	24.97	165
-	137.18			27.62	4.42		17.07	1.44	8.41	4.49	1-14	25.47	156
	142.75			30.46	5.72		17.90	1-67	7.36	4.48	C.93	20.86	131
	148.84			34.36	6-18	18.00	18.85	1.82	9-66	4.47	0+91	20-26	166
	154.43	8.72		38.64	6.09		19.99	1.84	7+22	4.68	0.97	20.77	156
17	156.73	9.09		40.87	6.95	17+02	20.66	2.06	7.97	4.70	1.04	22-15	160
10	169.34	6.17		44.50	5.86	13.17	21.80	1.96	8.97	4-67	1.08	22.13	1+1
	160.2€	7.75		44.73	6.29	14.05	22.09	1.46	8.42	4.90	0.97	19.71	/ 125
	161.72	6.08		47.19	5+80	12.28	23.03	1.70	8.23	4.94	1.17	24.09	362
	141.34	6.75		47.45	6.34	13.36	23.22	2-91	8.65	4+85	1.68	34.71	225
t-34	161.51	6.00		47.60	6-15	12.92	23.37	1.94	8-32	4.73	1.53	32.34	226
	161.78	6.31		47.76	6.75	14.13	23.33	2.01	8.61	4.76	2.12	42.80	333
	161.36	6.21	+	46.39	5.86	12.65	22.91	1.84	6.63	4.74	1-45	30.63	356
	160.50	5.82		46.24	6.56	14+17	22.92	2.05	8.97	4.85	1.65	39.03	291
	161.53	5.65		45.89	5.71	12.44	22.50	1-81	8-04	4.74	1-39	29.23	197
5-59	166.46	6.39		46.41	7.42	15.98	22.53	2.15	9.55	5.01	1.45	36.93	115
	158.97	8+36		43.29	6.82	15.75		2.37	16.95	4.90	2.06	42.01	104

TABLE-63 (A)

NNMB -WEST BENGAL - MEAN ANTHAOPOMETAIC MEASUREMENTS BY AGE (MALES) - 1974-79 68

TABLE-63 (B)

	He	ight (ce))		Veight (kg)			Are Circuaference (cm)			Skinfeld at triceps (##)		
Age	_									_			Ħ
(yr#)	X 	\$.0.	C.V.	×	5.0.	C.V.	×	5.0.	C.V.	×	5.0.	C.V.	
00	61.22	5+75	9.39	5.45	1.30	23.81		1.15	10.26	5.95	1.46	24.49	166
01	71.43	5.63	7.88	7.35	1.47	20.27	11.92	1.10	9.20	5.74	1.60	27.83	172
92	77-86	4.99	6.25	9+03	1.26	13. 91	12.55	0.95	7.58	6.33	1.43	22+62	169
23	87.ct	4.67	5.37	10.74	1.40	13.02	13.12	0.97	7.38	6.33	1.44	22.03	230
04	92.6E	5.15	5.56	11.84	1.62	13.67	13.39	1-21	9.00	6. 73	1.51	25.10	197
05	99 . 80	5.60	5.66	13,21	1.65	12.48	13.73	1.01	7.33	5.49	1-16	21-10	161
66	104.33	5.14	5.88	14.43	2.36	16.38	13.84	1.11	#.04	4.89	1.05	21.53	193
07	109.72	6.41	5.84	15.76	2.27	14-44	14.14	1.18	8.35	4.77	1.07	22.45	157
0.8	114-62	6.08	5.31	17.57	2.22	12.61	14.61	1.14	7.++1	4.64	1.04	22+42	216
09	118.55	6-21	5.24	16.73	2.54	13.57	15.00	1.16	7.73	4.67	1.02	21+61	175
10	123.64	5.88	4.75	20.75	2.59	12.39	15.63	1.20	7.66	4.84	1.14	23+50	1.64
11	128.61	6-84	5.32	23.09	3.25	14.09	16+22	1.47	9.09	4.85	0.75	19.64	173
12	133.9:	8.15	5.09	26.17	4.82	10.42	17.04	1.58	9.26	5-14	1.37	26.64	216
13	138.80	8.36	6.02	2*+ 92	5+30	18-27	17.81	1.64	9.19	5.53	1.54	27.77	161
14	143.47	7.55	5.27	33.02	6.02	18.22	18.93	1.97	10-40	6.34	2.35	37.07	145
15	144.81	7.99	5.52	35.12	6.25	17.78	19.93	2.09	10.47	7.09	2.47	34.79	126
16	148.31	6.15	4-15	38.66	5.53	14.55	20.92	2.11	10-10	7.51	2.73	36.45	91
17	149.32	6.87	4.60	39.96	6.06	15.16	21.26	2.07	9.55	8-04	2.78	34.61	
18	148.94	6.10	4.09	41.37	5.46	13.20	21.89	2.02	9-22	8.89	3.73	42-01	101
	149.41	5.14	3.44	40.22	5+85	14.54	21.15	2.05	9.70	7.71	2.53	32.64	
	149-37	5.56	3.72	41.04	5.42	13.20	21.35	1.84	8.78	7.13	2.70	37.63	297
	149.00	5.24	3.51	40.79	5.80	14.21	21.36	15	9.12	7.90	2.94	42.71	369
	148.42	5.22	3.52	40.21	5.75	14.27	21+34	1	9-11	6.85	2.68	39.07	358
	147-86	7.31	3.59	39.13	5.70	14.57	21.15	2.01	9.50	6.65	2.92	43.93	373
	148-0(5.38	3.64	39-12	6.16	15.76	21.32	2.14	10.02	6.72	2.99	44.51	244
	147.88	5.84	3.95	39.12	6.63	16.94	21.34	2.35	11.00	7.16	3.43	47.95	150
	145.8£	5-20	3.56	36.29	5.25	14.47	20.60	2. 35	9.91	6-14	2.29	37.35	101
i-54	146-52	4.78	3.26	36-42	5-15	14.14	20.59	2.40	11+65	6-31	3.20	56.76	72
** 60	146-25	5.00	5.42	36.67	6.80	18.55	20.44	2.48	12.15	6-21	2.52	46.61	

TABLE-64 (A)

NNMB - UTTAR PRADESH- MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (MALES) - 1974-79

		Height (c	n)		leight (k	9)	Arm (lircumfas	rence (ci	m) Skit	afold at	tricepe	
Aqe (yis)	_	\$.0.	C.V.		S.D.	C .V .	×	S.O.	C.V.	X	5.0.		N 7235-1
01	63.13	5.45	8.63	6.03	1.58	26.17	11.90	1.32	11.08	7.37	1.96	26.65	170
01	72.23	4.28	5+93	7.96	1-46	18.34	12.25	1.29	10.50	6.98	1+6P	26.95	19
02	84-35		7.78	9.43	1.78	18.17	12.92	1-13	8.78	7.37	1.98	26.85	23
03	87-46	6.57	7+51	11.64	2+54	21+82	13.41	1.23	9+17	7.16	1.78	24.94	22
84	95.50		5.13	13.36	1.59	11-67	13.96	0.92	6.59	7.02	1.73	24.64	28
05	101.64	4.83	4.75	14.40	1.40	9.75	14.02	0.93	6.66	6.38	1.61	25,27	21
06	107.26		5.95	15-91	1-56	9.83	14.40	1.02	7.05	6-1R	1-61	26.06	23
07	112.73	4.78	4.24	17.71	1.97	11.11	15-04	1.12	7.44	5.87	1+32	22.40	21
80	118.05	4+79	4+06	19.46	2.24	11-47	15.39	1.10	7.17	5-63	1.27	22.63	24
09	123.18	4.72	3.93	21.41	2.58	12.05	15.73	1.12	7.09	5.32	1.13	21.22	17
10	127-16	5.77	4.54	23.16	2.96	12.76	16-12	1.59	9,77	5.61	1-18	21.10	22
11	132.07	5-90	4.39	24.76	3.52	14.12	16.62	1.36	8.17	5.71	1.46	25.34	15
12	137.58	5.55	4-04	27.85	3.47	12+45	17.15	1.17	6.82	5.71	1.28	22.44	32
13	143.71	6-23	4.34	71.69	3.41	10.76	17.69	1.28	7.25	5.63	1.14	24.19	17
14	148.86	6.71	4-51	15.64	4.10	11-"0	18-52	1.58	8.54	5-73	1.58	27.62	22
15	153.11	6.80	4.44	39.49	4.76	12.05	19.41	2.00	10.28	5.45	1.20	21.95	21
16	156.97	5.96	3-80	42.46	4.64	10.93	20.46	2-98	10.18	5.43	1.09	20.03	18
17	158.71	6.93	4.37	44.91	5-17	11.50	21-25	1.8N	8.83	5.64	1.28	22.70	17
14	161.05	6.04	3.75	46.64	5-15	11.05	22.28	1.95	8.73	5.49	1.43	26.10	27
19	162.76	5.15	3.16	48-16	3.99	8.2A	22.6?	1.50	6.65	5.33	1.25	23.50	17
- 24	163.55	5.71	3-49	49.36	5-20	10.53	23.27	1.36	7.99	5.21	1-39	26.71	51
-29	163.50	6.69	4.04	50.44	6.57	13.03	23.74	1.98	e.35	5.20	1.53	29.37	29
-34	164-25	5.46	2.72	58.55	6.48	12-82	23-66	1.93	8-19	5.24	1-98	37.79	27
	164.56	23.29	14-13	50.76	7.64	15.04	24.08	3.74	15.54	5.35	3-19	5°.65/	32
- 44 -	163.42	6.50	3.98	50.47	7.44	14.74	23.57	2.05	8.71	5.12	1.77	34.59'	30
-	163-63	6.44	3.94	50.73	7.09	13.97	23.59	2.31	9.81	5.39	1.41	33.69	24
-54	162.76	6.54	4.92	47.42	7.68	15.54	23.22	2.23	9.61	5.35	2-14	39.99	19
	161.61	14-23	8.61	46.87	8.92	18+25	22.94	3.04	13.44	5-1 L	2.36	46.13	14
=60	161.92	6 - 20	3.83	46.93	8.49	18.10	21.99	2.64	12.17	4.96	2+19	44.04	31

TABLE-64 (B)

NNMB - UTTAR PRADESH - MEAN ANTHROPOMETRIC MEASUREMENTS BY AGE (FEMALES) - 1974-79

Age	. #	eight (c	a)	4	eight (k	g)	Ara C	ircumfer	ence (cm)	Skin	feld at 1	riceps (s	(==)	
	x	\$.D.	C.V.	x	S.D.	C.V.	x	5.0.	C.V.	Ŧ	\$.D.	C.V.		
00	64.1 E	12.16	10.95	6.41	6.28		11.55	2.11	18.28	6.95	2.25	32.43	176	
C 1	72.98	4-80	6.66	7.71	1.51	19.60	12-14	1.16	7.56	6.96	1.89	27.22	155	
02	79.6 C	5.78	7.26	9.39	1.70	1*+12	12.71	1.10	8.66	7.41	2.94	27.57	18:	
93	86.37	4.96	5.74	11.20	1.58	14.08	13.26	1.00	7.52	7.44	1.96	24.32	23	
04	93.5E	5.09	5.43	12.70	1-51	12.72	13.75	1.00	7.24	4.99	1.92	27.47	19	
05	100.67	F.74	8.68	14.89	7.17	48.14	14.27	0.97	6.91	6.66	1.47	22.00	142	
05	106.81	5.78	4.75	15.79	1.65	10.49	14.65	1.12	7.65	6.35	1.61	25.32	15	
97	111.96	5.45	+.87	17.02	1.9:	11.21	1*.10	1-11	7.33	6.02	1.41	23.49	15:	
	118.15	5-20	5.25	19.61	3.92	19.97	15.58	1.25	A.02	6.14	1.50	24.26	15	
07	122.53	7.60	6.20	20.97	2.85	13.63	15.54	1.41	0.93	6.01	1.44	24.03	11	
19	126.54	6.73	5.32	22.43	2.94	12.84	16.32	1.25	7.04	6.30	1-48	23.45	12	
11	132.72	5.77	4.35	26.16	3.45	13.17	17.13	1.2*	7.27	6.41	1.36	21.18	7	
12	137.59	5.47	3.78	29.18	7.95	13.55	17.81	1.59	8.93	6.92	1.86	76-89	14	
13	141.72	6.02	4.25	32.16	4.78	14.68	18.42	2.12	10.97	7-26	2.89	39.43	71	
14	145.76	5.32	3.65	36.10	5.40	14.96	17.54	2.1.	10.94	A.C7	3.57	44.27	71	
15	146.60	5.47	3.73	17.79	5.31	14.06	20.49	2.29	11.17	A.4=	3.07	36.23	t e	
16	148-40	5-55	3.74	39.81	5.16	12.95	21.04	2.41	11.44	8.75	3.74	42.77	7	
17	147.50	3.65	3.43	40.99	5.49	12.45	21.70	1.99	9.15	8.96	4.42	49.36	5	
18	148.51	6.71	4.52	41.61	5.37	12. 84	22.01	1.85	6.41	8.51	3.72	43.69	8	
19	147.88	4.99	3-26	43.70	6.02	13.77	22.35	2.1.	9.37	7.47	3.01	18.28	3	
-24	149.25	5.47	3.67	42.48	4.98	11.67	.22.40	1.68	8.41	A-31	3.36	40.40	28	
-29	149.26	5.35	4-25	42.90	5.85	13-64	22.34	2.09	9.34	7.7.	3.24	41-65	33	
-34	149.05	5.41	3.63	41.73	5.31	12.73	22.14	2.15	9.71	7.11	2.78	39.06	375	
-39	148-61	5.32	3-54	41-41	5.32	12.00	22+12	1.95	8.47	7.16	2.67	34.54	33	
-44	145.33	5.27	3.55	41.60	5.53	13.29	22.25	2.33	10.47	7.57	3.04	4(+13	24	
-49	148-40	5.45	3-68	41.44	7.38	17.63	22.22	2.55	11.49	7.73	3.40	45-16	1.9	
-54	147.70	6.65	4.50	40.78	7.51	18.42	21.81	2.59	11.86	7.61	3.47	50.90	15	
-57	147.33	5.46	3.70	39.37	6.28	15.95	21.31	2.46	11.56	6.54	3.49	53.63	11	
	145.72	5.76	3.97	37.04	6.72	18.1*	20.44	2.70	13.20	6+0=	3.42	56.21	22	

NNMB - PERCENTAGE DISTRIBUTION OF	PRE-SCHOOL	CHILDRAN ACCORDING TO COMEZ	CLASSIFICATION
-----------------------------------	------------	-----------------------------	----------------

Year		1975-79 (Pooled)		,	
State	Number Surveyed	Norm 1 77 90%	m11d 75-90%	Foderate 60-75×	5 ever // 60%
KERALA	1014	16.4	45.3	23*2	4.6
TAMIL HADU	1545	14.6	43.6	35.3	6.5
KARNATAKA	2300	·9.9	43.0	39.4	7.7
ANDIRA PRADESH	1819	13.3	42.2	36.7	7.8
мананазитка	1696	9.3	37.4	42 ₊ 0	11.3
GUJARAT	2114	9.8	37.6	43.0	9.4
ANDHYA PRADESH	970	12.0	36•3	40,2	11.5
DR TSSA	451	15,3	42.1	33.3	- 9.3
EST BENGAL	1545	10.6	43,0	39.6	6.5
ITTAR RADESH	1716	18.8	48+3	26.8	6.1

APPENDIX

1. CONSUMPTION UNIT (C.U.)

Practical nutrition work often involves the assessment of the calorie needs of groups of persons. In such cases, it is usual to assess the needs of women and children in terms of those of the average man by applying various coefficients to the different age and sex groups. The following scale is suggested for practical nutrition Work in India, the calorie consumption of an average adult male doing sedentary Work is taken as <u>one consumption unit</u> and the other coefficients are worked out on the basis of the calorie requirements. (Ref. Nutritive Value of Indian Foods-NIN, ICMR, Hyd. India, 1980).

Adult male (Sedentary worker)	•••	1.0
Adult male (Moderate worker)	•••	1.2
Adult male (Heavy worker)	•••	1.6
Adult female (Sedentary worker)	•••	0.8
Adult female (Molderte worker)	•••	0.9
Adult female (Heavy worker)	•••	1.2
Adolescents - 12 to 21 years	•••	1.0
Children - 9 to 12 years	•••	0.8
Children - 7 to 9 years	•••	0.7
Children - 5 to 7 years	•••	0.6
Children — 3 to 5 years	•••	0.5
Children - 1 to 3 years		0.4

It must be emphasized that this scale of co-efficients is a somewhat arbitrary one, and concerns only calories. It is not meant to be applied In assessing the needs for other nutrients.

2. PROTEIN-CALORIE ADEQUACY:

In the following tables: 5, 6, 6 (A-G) and 49 (A-G). The abbreviations denote:

<u>P C</u>	Protein and Caloris inadequate.
РС + -	Protein adequate and calorie inadequate.
РС - +	Protein inadequate and caloris adequate.
РС + +	Protein and calorie adequate.

3. Standards* for: body weight (kg) used for classification of children into nutritional grades (Gomez classification)

Age (yrs.)	Boys	Girls
1+	10.50	9.80
2+	12.50	11.30
3+	14.75	13.30
4+	17.25	15.65

Source: Hanumantha Rao, D., Satyanarayana, K. and Gowrinath Sastry.J. (1976). Growth pattern of well-to-do Hyderabad pre-school children. Ind. J. Pled. Res. <u>64</u>, 629-638.

4. CLASSIFICATION OF ACTIVITIES BASED ON OCCUPATIONS:

SEDENTARY:

Male: Teacher, Tailor, Barber, Executives, Shoe-maker, Priest, Retired Personnel, Land-Lord, Peon, Post-man etc.

Female: Teacher, Tailor, Executives, House-Wife, Nurses etc.

MODERATE:

- Male: Fisherman, Basket-maker, Potter, Gold-smith, Agriculture-labour, Carpenter, Mason, Rickshaw-puller, Electrician, Fitter, Turner, Welder, Industrial labour, Cooli, Weaver, Driver etc.
- Female: Servant-Maid, Cooli, Basket-maker, Weaver, Agriculture-labour, Beedi-maker etc.

HEAVY:

Male:Stone-cutter, Black-smith, Mine-Worker, Wood-cutter, Gang-man etc. Female: Stone-cutter,

* * * * * *

CENTRAL REFERENCE LABORATORY

TECHNICAL STAFF:

Mr. K.M. Kullah

Mr. P.V. Parthasarathy

Mr. M.V. Prasada Rao

Mr. P. Vankateswara Rao

Smt. L. Panjamani

Mr. P.M. Ramuloo

NATIONAL NUTRITION MONITORING BUREAU (Indian Council of Nodical Research)

VILLAGE SCHEDULE

Date

	District :	Taluq :	Block	Village :	
Total population	1			Distance from	Block Hq. PHC. Bus stop
	Females :	Number of households according t	to occupation :		bus scop

	CULTIVATORS			LABOURE	RS	OTHERS			
Occupation	Owner	Tenant	Owner-cum- Tenant	Agriculture	Non-Agriculture				
No. of Households									

Live stock of different types .

Live stock	Cattle	Milch	Bullocks	Milch	Cheen	Cooto	Doultry	Dico	OTHERS	3
	Callie	cattle	DUIIOCKS	buffaloes	Sheep	Goats	Poultry	Pigs		
Numbers										
Yield (Litres/animal)										

Land utilization in acres (previous year) :

Total area	Irrigated area	Gross area sow Khariff Rabi	Fallow lands	Area sown more than once	Permanent pastures and grazing lands	Cultivable waste

Crop pattern in acres (previous year) .

Crop	Paddy	Wheat	Jowar	Bajra	Maize	Ragi	Other m:	Other millets		her millets Pulses		Oilseeds	Sugar cane	Chillies	Others
Area															
Yield/acre															

State :

No, of Irrigation sources: Wells Tanks Canals Rivers Drinklng water facilities : Wells / Taps / Tank / Stream Education facilities (Type of school): Primary / Upper primary / High Developmental activities: (a)School lunch programme: Yes/No, if yes, No, of beneficiaries (b)Applied Nutrition programme : Yes/No (c)Manila Mandal / Youth club / Balvadi (d)PHC sub-centre / Family Planning sub-centre (e)Other nutrition programmes Yes/No (specify)

Cost of different foodstuffs/Kg. :

Foodstuff	Cost	Foodstuff	Cost	Foodstuff	Cost
Cereals 1.		Other Vegetables 1.		Fish 1, Fresh	
2.		2.		2. Dry	
3.		Roots & Tubers 1.		Flesh Foods 1. Meat	
Pulses 1.		2.		2. Egg-	
2.		Nuts & Oilseeds 1.		Milk	
3.		2.		Oil	
Leafy vegetables		Condiments & Spices		Sugar	
2.		Fruits		Jaggery	

NATIONAL NUTRITION MONITORING BUREAU (Indian Council of Medical Research)

Talug

HOUSEHOLD SCHEDULE

Block

Date: Village

State :

Family No.

District .

Name of head of the family :

Community :

Type of House :

Household members and their demographic particulars :

			5 1	-									
S.No.	Name of the	e member	Relatio	on to	Sex	Age	Marital statu	us Literacy	2	Inco		Remarks	
			head						occupat n	cio per	annum		
1.													
2.													
3.													
4.													
5.				_									
6.													
7.													
6.													
9.													
10.										•			
m - + -]	6					ma ta	1 6						
	family incor							penditure/annum					
Land	holdings (in	acres)	Total:		We	t	Dry:						
Area 1	under differer	nt crops (1	ast major s	season)									
Name of	the crop	Paddy	Wheat	Jowar	С	ther mill	.ets	Nuts and oil see	ds	Pulses		Others	

1	1							
Area in acres								
Yield (quintals)								
Value/quintal								

32

Live stock of different types :

Live stock	Cattle	Milch cattle	Bullocks	Milch buffaloes	Sheep	Goats	Poultry	Pigs	OTHE	ERS
Numbers										
Yield										
(Litres/animal/day)										

NATIONAL NUTRITION MONITORING BUREAU (Indian Council of Medical Research)

FAMILY DIET SURVEY - ONE DAY WEIGHMENT

Family N	No.	Name c		Date					
Village			Dis	trict				State	
Age and	Sex compo								
Age	Adult	12-21	9-12	7-9	5-7	3-5	1-3	Guests (A	qes)
М									-
F									
					[Į	[<u>.</u>

WEIGHT OF RAW FOODS IN GRAMS

	FOODSTUFF	FOODSTUFF
1.	CEREALS Bajra	17. OTHER VEGETABLES
2.	Jowar	
3.	Maize,	
4.	Ragi	
5.	Rice	
6.	Wheat flour	ROOTS & TUBERS
7.	Others	18. Carrot
		19. Onion, big
		20. Potato
	PULSES	21. Taploca
8.	Bengalgram	22. Others
9.	Blackgram	
10.	Greengram	
11.	Khesan dal	NUTS & OILSEEDS
2.	Lentil	23. Cashewnut
3.	Redgram	24. Coconut. dry
4.	Soyabean	25. Coconut. fresh
5.	Others	26. Groundnut
		27. Others
6.	LEAFY VEGETABLES	
0.		28. CONDIMENTS & SPICES
	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	

p.t.o.

WEIGHT OF RAW FOODS IN GRAMS

FOODSTUFF

FOODSTUFF

FRUITS	MILK & MILK PRODUCTS
29. Amla	45. Milk
30. Apple	Curds
31. Banana, Ripe	Butter Milk
32. Lime & Orange	46. Skimmed milk, Liquid
33. Mango, Ripe	17. Cheese
34. Melon, Water	FATS & OIL!
31. Papaya, Ripe	
36. Tomato, Ripe	19. Ghee
37. Others	l0. Hydrogenated oil
	51. Cooking oil
FISH	DTHER FOODSTUFFS
38. Fish, Fresh	52. Betel leaves
	53. Biscuit, Salt
39, Fish, Dry	54. Biscuit, Sweet
	55. Bread, White
40. Prawns	56. Sugar
OTHER FLESH FOODS	57. Jaggery
	58. Papad
42. Chicken	59. Sago
43. Liver, Goat	50. Toddy
44. Egg, Hen	51. Horlicks
<u>I</u> I	62. Farex
	63. Amul, Amuls pray
	Others :

NATIONAL NUTRITION MONITORING BUREAU (Indian Council of Medical Research)

INDIVIDUAL DIETARY INTAKE (ORAL QUESTIONNAIRE)*

Family No		e of the head of the		ng das Daspanis Dan gant can Dân Agis <mark>das Quij Chill ga</mark> b di			وون ويستعقبك واع أقاربون فالاعون		Date	E	
Village	144 Aur 144 - 149 Ada			Distric	t				State		11 - 110 - 111 - 111 - 11 1 - 111 - 11
<u></u>	Particu	lars					Serial numb	er of the l	Individua		
					1	2	3	4	5	6	7
				Name							
			Age	in years	* *	1000 may sala dan dan sala dan san					
				Sex	9 p 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	fund dirth in den anden fan er oner o gely dan g			** =# 2++ + =# 4 - ++* +=+ ++		
Physiolog	ical Status** :	NPNL/Preg./La	ct./BF/BF	=+S/S 		-y === == = = = = = = = = = = = = = = =				,	a, -= 141 a - 4 2 - 41
				ht (cms)	5 ♥ dan marin - 600 (nat ar rise ar rise and dan				• -•		1999 79 66 FL
				sht (kgs)							
		Arm ci	rcumferen		###			Ala a			84 994 - 49 48 7 - 49 47 7
			d at Trice		y a da alla tan din majany say sagaga ngadan mgan			*****			
			ircumferen) 0 0 1				** *** *** * * * * *** ***		
			ircumferen		, , ,						
					• • •						••••••••
		Clinical Signs [N			** ***						
	Type of preparation	Foodstuffs	Raw amount	Total cooked		I	Individual 	l i	r .		
			8.	quantity	I	2	3	4	5	6	7
Early morning											
					•			• • • • • • • • • • • •		· · · · · · · · · · · · ·	
		·									
								• •••• • •••••••••			-- .
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			_			[
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* Record participation in any feeding programme with details and food consumed outside the home.

** NPNL : Non-Pregnant Non-Lactating; Preg. ; Pregnant; Lact. Lactating; BF : Breast-fed only; S : Supplements only.

• •• .

p.t.o.

		be of ⁼ oodstuff Raw Total				ndividuals' Intake (Cooked Quantity)					
			g.	quanti	1	2	3	4	5		7
Name of the Individual										•	
Breakfast											
Mid.morning											
Lunch											
Lanon											
Tea &											
Snacks											
Dinner											
								<u> </u>			

NATIONAL NUTRITION MONITORING BUREAU (Indian Council of Medical Research)

NUTRITION ASSESSMENT SCHEDULE

			Date :						
State:	District:	Taluk:	Village:						
Serial No.	Family No.	Block:							
Name of the subject :		Sex: Male/Female							
Name of the Father/Guardian	:	Occupation :							
Income (per annum) :	Date of birth :	Age: Yrs mths.							
Source: Parents/record									
Breast fed/BF + Supplement (BF)	ts/Not BF	Pregnant/Lactating:	mths.						
ANTHROPOMETRY :									
ANIMAOFOMEIRI .									
Heights (cms.) _:	Fa	at fold at triceps (mms.) :							

Weight (kgs.) :Head Circumference* (cms) :Arm Circumference (cms) :Chest Circumference* (cms) :

CLINICAL EXAMINATION :

Crazy pavement

dermatosis 23.

SParse01: Hair : Discoloured 02: Easily plucked 03: Moon face 04: Parotid enlargement 05. (bilateral, pamless) Oedema 06. Emaciation 07. Marasmus 08. Conjunctival xerosis 09. Bitot's spots 10. Corneal xerosis/ Keratomalacia11 Corneal opacity12. Night biindnessl3. Photophobia 14. Anaemia 15. Nasolabial dyssebacea 16. Angular stomatitis 17. Cheilosis 18. red & raw 19. Papillae-atrophic 20. Tongue : Papillae-hypertrophic 21. Pellagra 22.

Chest Circumference* (cms) : Pigmentation at

knuckles/fingers/toes 24. Phrynoderma 25. Koilonychia 26. Gums-spongy bleeding 27. Craniotabes 28. Epiphyseal enlargement 2?. Beading of ribs 30. Knock-knees/bow legs 31. Frontal parietal bossing 32. -caries 33. : Teeth : Mottled enamel 34. Enlargement of spleen 35. Enlargement of liver 36. Soft Firm Hard Thyrold enlargement 37. Others 38.