GOVERNMENT OF KARNATAKA

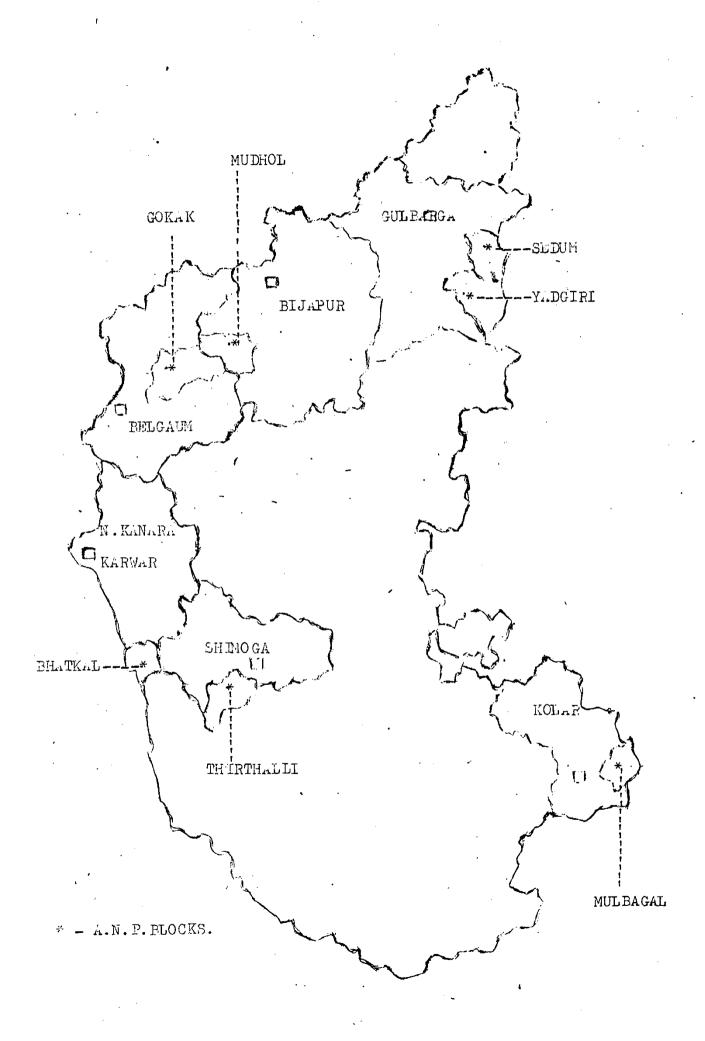
REPORT ON

BASELINE SURVEY CONDUCTED IN THE BLOCKS
SELECTED UNDER APPLIED NUTEITION PROGRAMME DURING 1973-74

BUREAU OF ECOPOMICS AND STATISTICS
EANGALORE

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BUREAU OF ECOPOMICS AND STATISTICS
EANGALORE



#### BASELINE SURVEY REPORT-IX-SERIES 73-74

Applied Nutrition Programme was implemented in seven more blocks of the State mentioned below during 1973-74 covering in all so far 94 blocks. The baseline survey was conducted in these 7 blocks and this report contains the findings of the survey.

(i) Mulbagal of Kolar District.(ii) Thirthalli of Shimoga District.

(iii) Mudhol of Bijapur District. (iv) Bhatkal of N.K.District.

(v) Gokak of Belgaum District. (vi) Yadgir. of (Gulbarga Di (vii) Sedum of (Gulbarga Di Gulbarga District.

The finding of dietry and clinical surveys conducted in these blocks by the Directorate of Health & Family Planning services are given separately in Chapter III.

The field work of the Baseline survey was carried out by the Gramsevakas. The co-operation extended by the block authorities and the Directorate of Health & Family Planning services in conducting the survey is thankfully acknowledged.

This report was prepared in the ANP section of the Agricultural Statistics Wing of the Bureau.

(P.P.PRABHU)

Director

Date: 23.11.1974.

### BUREAU OF ECONOMICS AND STATISTICS, BINGALORE

# BASELINE SURVEY COMDUCTED IN A.N.P. BLOCKS OF IX SERIES DURING 1973-74

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REPORT ON THE BASELINE SURVEY CONDUCTED IN THE A.N.P.BLOCKS OF

IX SERIES DURING 1973 - 74

#### CHAPTER I

#### 1.1 INTRODUCTION:

The Applied Nutrition Programme was introduced in Karnataka during 1963-64, with the assistance of UNICEF. So, far 94 blocks have been covered including the 7 blocks taken-up during 1973-74, viz. Mulbagal of Kolar District, Thirthalli of Shimoga district, Mudhol of Bij-apur district, Bhatkal of N.K.district, Gokak of Belgaum district and Sedum & Yadgiri of Gulbarga district. The object of the programme was to raise the dietary nutritional level of rural people/afficrease the production of nutriticus foods by encouraging cultivation of vegetables & fruits and raising poultry-birds.

The Baseline Survey was conducted in the selected blocks in order to ascertain the Socio-Economic condition of the people prevalent before the implementation of the Applied Nutrition Programme.

#### 1.2 SAMPLING DESIGN:

A two stage random sampling method was adopted to conduct the survey. Villages selected in each Gramsevak circle constituted the 1st stage sampling units, and the Households selected in each of the selected villages constituted the second stage units. Two villages in each Gramsevak circle and 10 households in each of the selected villageswere selected for the survey.

#### 1.3 FIELD WORK:

The District Statistical Officers trained the field staff in selecting the villages and households and finally prepared and forwarded the estimates to the Director, Bureau of Economics & Statistics.

# 1.4 ANALYSIS OF THE BASELINE SURVEY:

After the completion of field work, the Gramsevak submitted the filled in schedules to the B.D.OS. After scrutiny they were forwarded to the DSOs. The tabulation & estimation was done at the district level. The consolidated report of the ANP Block was prepared at the state level by the Bureau.

#### CHAPTER II

### FINDINGS OF THE BASELINE SURVEY REPORT IX SERIES 1973-74

For the year 1973-74-IX series, the Baseline Survey was conducted in 7 development blocks viz:

- Mulbagal of Bangalore division.
- 2. Thirthalli of Bangalore division.
- 3. Mudhol of Belgaum division.
- 4. Bhatkal of Belgaum division.5. Gokak of Belgaum division.6. Sedum of Gulburga division.

- 7. Yadgiri of Gulburga division.

The general particulars of the 7 development blocks with regard to their geographical area, number of inhabited and un-inhabited villages and population are furnished in table I.

TABLE I General particulars of the selected ANP blocks.

0.7		, , , , , , , , , , , , , , , , , , , ,	Numb	er of	Rural popula- Popula-		
\$1. No.	Block	Area in Sq. Km.	Inhabited Uninhabite villages		tion as per 1971-census.	tion per Sq.Km.	
1.	Mulbagal	833.8	302	42	1,19,621	143	
2.	Thirthalli	1241.2	245	2	1,03,832	84 .	
3.	Mudhol	943.1	77	<b>_</b> :	94,249	100	
4.	Bhatkal	344.4	63	. 1	52,924	1 54	
5.	Gokak.	1438.5	104	<del>'=</del>	2,06,808	144	
6.	Sedum	1014.4	104	. 7	95 <b>,</b> 938	95	
7.	Yadgiri	1704.6	131	11	1,53,005	90	

The population density of Bhatkaltaluk was the highest followed by Gokck, Mulbagal, Mudhol, Sedum, Yadgiri and Thirthalli taluks

#### 2.1-POPULATION:

Estimates of the rural population of the 7 taluks and their comparision with 1971 census are furnished in Table II.

TABLE II Estimated population of ANP Section Rural population Percentage Estimated Ave.size S1. of the as per Block Increase(+) Number of No. -) families <u>family</u> or Decrease( 71census survey 4 1,19,621 1,32,452 <u>10.7</u> 21,520 22,270 6 1. Mulbagal 6 + 29.8 1,03,832 1,34,816 2. Thirthalli 7-6 15,428 3. Mudhol 94,249 1,00,049 6.2 + 13.8 10,317 4. Bhatkal 52,924 60,200 2,06,808 2,11,138 95,938 74,967 2.1 25,109 8 5. Gokak + 6 13,711 21.9 6. Sedum 6 27.066 <u>.47.910</u> 53,005 7. Yadgiri

In Sedum & Yadgiri blocks there was a decrease in population which might be due to drought conditions prevelent in those areas. In the rest of the blocks the population had increased.

#### 2.2. AGE DISTRIBUTION:

Estimated number of persons classified according to various age groups is furnished in Table III

TABLE III

Agewise population according to sex

À	~~~~	BLOCKS							
Age 	Se x	Mulbagal	Thirtalli	Mudhol	Bhatkal	Gokak	Sedum	Yad- giri	
Below	M	2442	781	1209	548	1133	250	231	
1 year	F	1899	752	222	669	1860	555	673	
1 to 3	M	3569	3888	3499	2877	2809	1933	4479	
years	F	- 3164	5428	3402	2156	2976	1394	5040	
3 to 5	M	4362	3830	3534	1633	4695	1891	4997	
years	F	3687	3776	2602	1360	4785	2519	47 <b>79</b>	
5 to 7	M	3951	3734	4242	1426	8364	2885	395 <sup>9</sup>	
y ears	F	3074	3278	3747	2748	7859	2177	5400	
7 to 9	M	5340	4157	3613	2783	. 8624	2440	2989	
years	F	4162	3081	355 <b>8</b>	2400	7732	3124	4233	
9 to12	M	8142	96001	5724	4622	8074	4934	8929	
years	F	6911	11704	5760	3817	9731	4559	6688	
12to21	M	9395	13015	7281	3345	29660	8172	9778	
years	F	7544	13067	5881	3827	29828	7211	8875	
21to45	M	2118 <b>6</b>	19356	15393	8974	19996	9176	25084	
years	· F	20267	18268	14958	9516	17678	7369	26159	
45to60	M	6445	6641	5992	2684	19499	6606	9786	
years	F	8497	4734	5778	2198	9785	5025	9284	
above	M	4492	3379	1772	1350	9194	1905	2875	
60	F	3923	2347	1882	1274	6856	842	3133	
$\rangle$ Total	M	69324	68381	52259	30242	112048	40192	73706	
	F	63128	66435	. 47790	29965	99090	34775	74204	

M = Male. F = Female.

The majority of the estimated population of all the development blocks except the Gokak block was within the age group of 21 to 45 years. The majority of the population of Gokak block was in the age group of 14 to 21 years.

Age pyramids of Malr & Female population of the 7 blo-cks have been errected to show the distribution of population according to age groups as shown in Chart  $I_{*}$ -sivon at the end.

#### 2.3 OCCUPATION:

Estimated number of population classified according to various occupation is furnished in Table IV.

TABLE IV

Population classified according to various occupation.

Sl. No.	Block	Number of cultivators	Number of Ag- ricultu- ral la- bourers	Others	Number of persons be low 14 yrs & above 59 yrs	TOTAL (3)to(6)
1	2	3	4	5	6	7
1.	Mulbagal	63 <b>,</b> 488 (48)	13 <b>,</b> 930 (11)	4,748 (3)	50 <b>,</b> 286 (38)	1,32,452 (100)
2.	Thirtalli	23,572 (18)	31,616 (24)	22 <b>,</b> 608 (16)	57,020 (42)	1,34,816 (100)
3.	Mudhol	24 <b>,</b> 531 (25)	24,002 (24)	15,031 (15)	36,485 (36)	1,00,049 (100)
4.	Bhatkal	9,902 (16)	4 <b>,</b> 940 (8)	8,565 (14)	36,800 (62)	60,207 (107)
5.	Go-kak	89,196 (42)	64 <b>,</b> 706 (31)	22,755 (11)	34,481 (16)	2,11,138 (100)
٠ 6.	Sedum	17,354 (23)	16 <b>,</b> 090 (22)	11,115	30,498 (41)	74 <b>,</b> 967 (100)
7.	Yadgiri	46,675 (32)	44,551 (30)	19 <b>,</b> 706 (13)	36,978 (25)	1,47,910 (100)

N.B: Persons below 14 years and above 59 years of age were considered to be economically inactive.

In Mulbagal, Gokak & Yadgiri blocks the number of cultivators was more, while in Thirthalli, Mudhol, Bhatkal and Sedum blocks, persons below 14 years of age and above 59 years of age were more. The Agricultural labourers were predominant in Thirthalli block while cultivators were predominant in Mudhol, Bhatkal and Sedum blocks. In/Thirthalli, Mudhol, Sedum, Gokak and Yadziri number of perso-ns with other occupations formed the minority group. In Bhatkal block estimated number of employed personswere lesswhen compared to the total estimated population.

The piediagrams showing the occupation of persons in all the 7 development blocks is exhibited in Chart II.

<sup>2.</sup> Figures within brackets indicate percentages to the total.

AGE PYRAMIDS SHOWING THE DISTRIBUTION OF POPULATION ACC-ORDING TO SEX

CHART-I

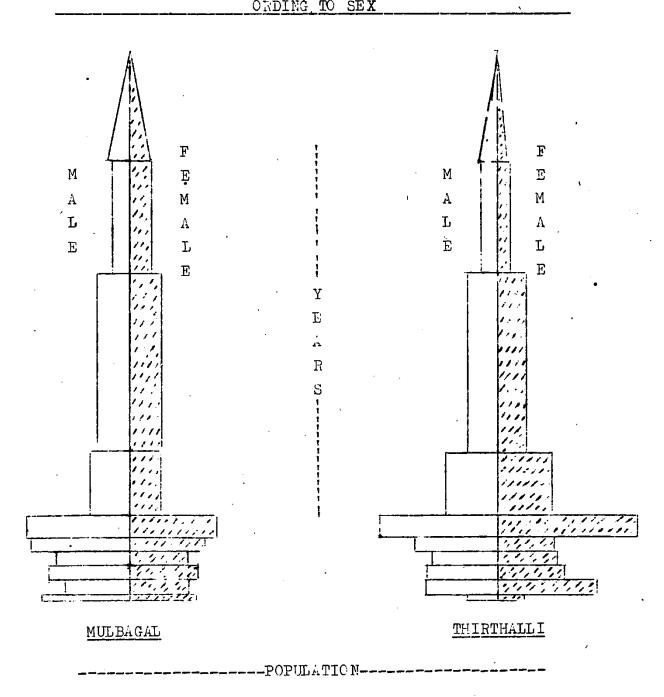


CHART-I

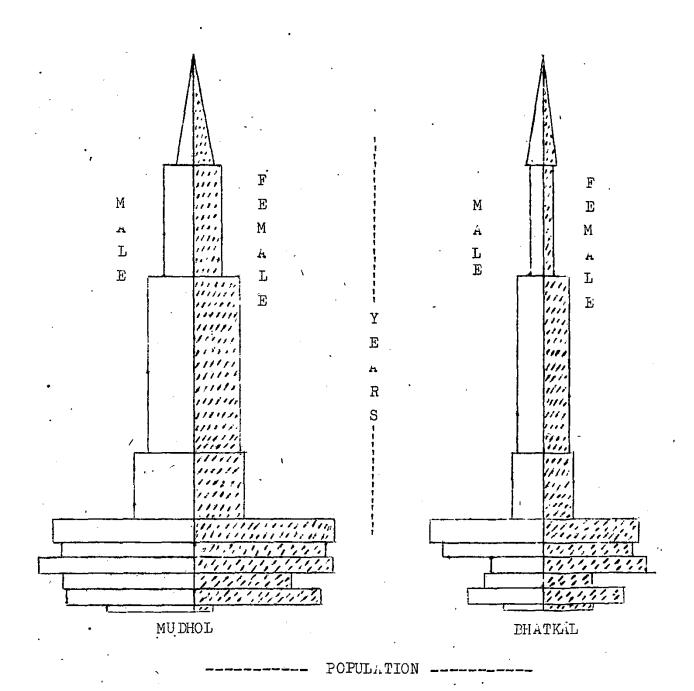
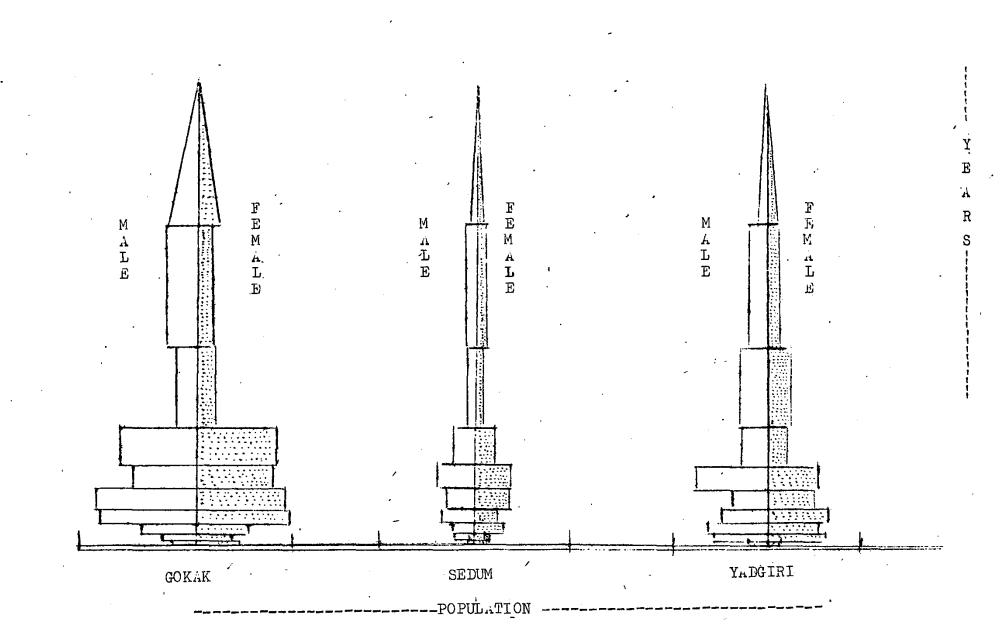
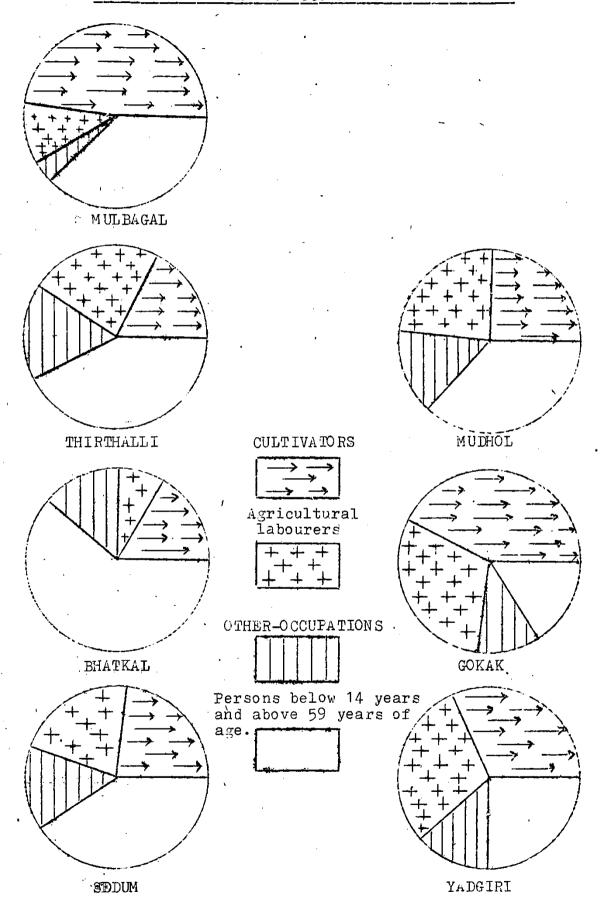


CHART - I



## <u>CHART-II</u> PIE DIAGRAMS

# SHOWING THE ESTIMATED POPULATION ACCORDING TO VARIOUS OCCUPATION



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#### 2.4 EDUCATION AL STATUS

Estimated number of persons classified according to their educational status is furnished in Table -  $\overline{\underline{V}}$ 

Table V population classified according to educationalqualifications

,S1.	Block	Numl	er of	. N	umber of	persons having	Num- ber- T of O perso- T
No.	DIOGR	Lite- rates	Illite- rates	Prima- ry edu- cation	Lower Secon- day ed- ucation	educa- rees fica-	ns be- A low 5 L years
1	2	3	4	5	6	7 8 9	10 11
1.	Mulbagal	3963 (3.0)	83792 (63.3)	17922 (13.5)	8111 (6.1)	3024 216 439 1 (2.3)(0.2)(0.3)(	
2.	Thirtha- lli	11012 (8.2)	57480 (42.6)	29989 (22.2)	1387 <b>3</b> (10.3)	9976 <i>2</i> 117 284 16 (7.4)(1.6)(0.2)(	
3.	Mudhol	5217 (5.2)	76149 (76.1)	8594 (8.6)	1243 (1.2)	1969 598 236 (2.0)(0.6)(0.2)(	
4.	Bhatkal	8052 (13.4)	34647 (57.5)	5160 (8.6)	1773 (2 <b>.</b> 9)		9240 60207 15.4)(100)
5.	Gokak	31282 (14.8)	97783 (46.3)	19579 (9.3)	18963 (9.0)	144231572 9278 1 (6.8)(0.7)(4.4)(	
6.	Sedum	2747 (3.7)	58110 (77.5)	3332 (4.4)	2650 (3.5)	1264 30 60 ( (1.7)(0.1)(0.1)(	
7.	Yadgiri	8568 (5.8)	103464 (70.0)	9223 (6.2)	3267 (2.2)		9570 147910 13.2)(100)

N.B: 1. Figures within bracket indicate percentages to the total.

The percentage of literacy (including qualifications) was the highest in Thirthalli block followed by Gokak, Bhatkal, Mulbagal, Mudhol, Yadgiri and Sedum blocks.

Among the educated class, number of persons having primary education was the highest in all the 7 blocks,. Number of persons with degrees or other qualifications was very, low in all the 7 blocks.

<sup>2.</sup> An illiterate is one who can neither read norwrite.

<sup>3.</sup> A literate is one who can read and write but need not have undergone a scholastic carrer.

<sup>4.</sup> Persons below 5 years of age were excluded for obvious-reasons.

#### 2.5 INCOME OF FAMILIES

Estimated number of families classified under various income groups is furnished in Table VI

sl.	Block	Number of families with annual Income of						Mo to 3
No. Brock	Rs 0 <b>–</b> 500	500- 1200	1200- 2500	2500 <b>-</b> 6000	6000 <b>-</b> 10000	Above 10000	Total	
1.	Mulbagal	1856 (9)	5007 (23)	7635 (36)	5112 (24)	1040 (5)	870 (3)	21520 (100)
2.	Thirtha- lli	759 (3)	6370 (29)	5572 (25)	8290 (37)	907 (4)	372 (2)	22270 (100)
3.	Mudhol	2574 (17)	7220 (47)	4552 (30)	1082 (6)	-	-	15428 (100)
4.	Bhatkal	169 (2)	4391 (43)	4496 (44)	1054 (9)	72 (1)	145 (1)	10317 (100)
5	Gokak	395 6 (16)	8709 (35)	5868 (23)	5289 (21)	1201 (5)	86 .	25109 (100)
6.	Sedum	631 (5),	4062 (30)	5623 (41)	3303 (23)	92 (1)	~	13711 (100)
7.	Yadgiri	6797 (25)	12033 (45)	4505 (17)	3137 (12)	· 294 (1)	-	27066 (100)

N.B: Figures within brackets indicate percentages to the total.

From the above table it can be observed that majority of the families of all the 7 blocks was having an annual income between Rs.500/- and Rs.6000/-. Families getting annual income below Rs.500/- and above Rs.6000/- were very few in all the 7 blocks. In Mudhol block practically no family derived annual income above Rs.6000/- and in Sedum & Yadgiri blocks no family derived annual Income above Rs.10000/-

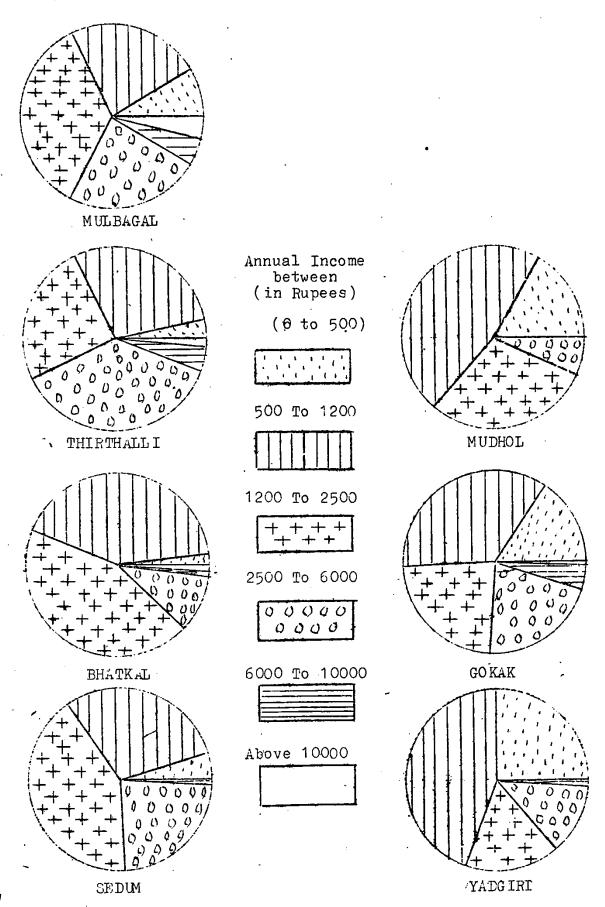
Pie diagrams showing the families distributed according to their annual income are exhibited in Chart III.

#### 2.6 FOOD HABITS

Estimated number of families classified as Vegetarian & Non-vegetarian is furnished in Table  ${\bf VII}$ .

#### CHART-III

# PIE DIAGRAMS SHOWING THE ESTIMATED NUMBER OF FAMILIES DISTRIBUTED ACCORDING TO THEIR INCOME



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TABLE VII Families classified as vegetarian & non-vegetarian.

Sl. No.	Block	Vegetarians	Non-vege- tarians.	Total (3)+(4)	
1.	Mulbagal	931(4)	20589(96)	21520(100)	
2:	Thirthalli	28̀31 (13)	19439 (57)	22270 (100)	
3.	Mudhol	10634 (69)	4794 (31)	15428 (100)	
4.	Bhatkal	471 (5)	9846 (95)	10317 (100)	
5.	Gokak	15625 (62)	9484 (38)	25109 (100)	
6.	Sedum	4324 (32)	9387 (68)	13711 (100)	
7.	Yadgiri	3905 (14)	23161 (86)	27066 (100)	

- N.B: 1. Figures within brackets indicate percentages to the total.

  2. A vegetarian is one who consumed vegetables in their diet.

  3. A non-vegetarian is one who used flesh y foods like, Mutton, Fish, Eggs etc. in their diet.

In Mulbagal block 96% of the estimated number of familie: was non-vegetarians followed by Bhatkah (95%), Thirthalli (87%), Yadgiri (86%) and (68%). In these blocks non-vegetarians were in majority. It was only in Mudhol and Gokak blocks that vegetarians were in majority.

#### 2.7 REQUIREMENTS OF VEGLTABLES & FRUITS

/Sedum

Estimated number of families meeting their requirement of vegetables from various sources is furnished in Table VIII.

#### TABLE VIII .

Families meeting the requirement of vegetables from various sources.

C.J		No.of families		meeting rement fro	m requi-	
Sl.	Blocks	not using ve - getables	Kitchen garden.	Out sid within village	e Garden Outside the village	Total (3)to(6
1 1	2	3	4	5	6	7
1.	Mulbagal	16532 (77)	1557 (7)	3431 (16)	-	21520 (100)
2.	Thirthalli	<del>-</del>	3085 (13)	3925 (17)	15260 (70)	22270 (100)
3.	Mudhol	<del>-</del> ·	462 (3)	1091 (7)	13875 (90)	15428 (100)
-	Bhatkal	8007 (78)	1666 (16)	644 <sub>.</sub> (6)		10317 (100)
5•	Gokak	<b>-</b>	207 (1)	~	24902 (99)	25109 (100)
6.	Sedum	. 31 (1)	<b></b>		, 13680 (99)	13711
7.	Yadgiri	-	1566 (6)	, <b>-</b>	· 25500 (94)	27066 (100)

N.B: Figures within brackets indicate percentages to the total.

In Mulbagal & Bhatkal blocks majority of the families did not use vegetables. In Sedum block only 1% of the estimated number of families did not use vegetables.

In Thirthalli, Mudhol, Gokak and Yadgiri blocks all the families used vegetables. In all the blocks except Mulbagal & Ehatkal, the major-ity of the estimated number of families met the requirement of vegetables from outside garden.

Estimated number of families meeting the requirement of fruits from various sources is furnished in Table IX.

TABLE IX

Families meeting the requirement of fruits from various sources

		No. 0.0 - 8-11-1		es of meeting		<del></del>
Sl. No.	Blocks	No.of famili- es not using fruits		quirement fro Gardent in th village	m Outside the village	Total (3)T0(6)
1	2	3	4	5	6	7
1.	Mulbagal	20340 (95)		1180 (5) ,	-	21520 (100)
2.	Thirthalli	<b>-</b>	<b>-</b> .	<del>-</del>	22270 (100)	22270 (100)
3.	Mudhol	•	229 (1)	602 (2) .	14597 (97)	15428 ( <b>1</b> 00)
4.	Bhatkal	8007 (78)	1555 (15)	755 (7)	-	10317 (100)
5•	Gokak	-	1342 (5)	_	23767 (95)	25109 (100)
6.	Sedum .	-	-	-	13711 (100)	13711 (100)
7.	Yadgiri	-	1566 (6)	<del></del>	25500 (94)	27066 (100)

N.B: Figures wit-hin brackets indicate percentages to the total.

In Mulbagal & Bhatkal blocks, majority of the estimated number of families did not use ffruits. In Thirtalli, Mudhol, Gokak, Sedum and Yadgiri, all the families used fruits. In Thirtalli & Sedum blocks all the families met the requirement of fruits from other sources. In Mudhol & Gokak blocks majority of the estimated number of families met the requirements of fruits from outside gardens in the village while in Bhatkal block majority met requirement from kitchen garden. In Mulbagal block the number of families meeting the requirements of fruits is wholly met from gardens outside the village.

#### 2.8 POULTRY MAINTENANCE & EGG PRODUCTION

Estimated number of families keeping po ultry and the number of birds reared by them are furnished in Table X.

Sl.	Bl cks	Rear- ing birds	No- lack	nber of fam t rearing of Non-ava- ilabili ty of pla- ce .	Reli-Other	Total number of  birds  (3) Imp to Desi rov (7) ed.
1.	2	- 3	4	5	6 7	8 9 · 10 11
1.	Mulbagal	8651 (40)	59 1 (28)	5553 (26)	1058 <sup>7</sup> 347 (5) (1)	21520 51394 <b>-</b> 51394 (100)
2.,	Thirtall		6837 (31)	353 (1)	353 186 (1) (1)	22260 130694 <b>-</b> 130694 (100)
3.	Mudhol	2788 (18)	1	284 (2)	529 2463 (34) (16)	15428 18739 <b>- 1</b> 8739 (100)
4.	Bhatkal	5866 (57)	3004 (29)	85 (1)	603 759 (6) (7)	10317 31455 <b>- 31</b> 455 (100)
5.	Gokak	7472 (30)		4238 (17)	8050 182 (31) (1)	25109 48619 <b>-</b> 48619 (100)
6.	Sedum	3607 (26)	4327 (32)	2797 (20)	2980, <b>-</b> (22)	13711 45554 <b>-</b> 45554 (100)
7.	Yadgiri	10806 (40)	9208 (34)	4:4 (2)	2972 3636 (11) (13)	27066 76000 76000 (100)

N.B: Figures within brackets indicate the percentages to the total.

In Thirthalli & Bhatkal blocks, majority of estimated number of families reared birds. In Mulbagal, Thirthalli, Ehatkal, Sedum and Yadgiri blocks the main reason for not rearing birds was lack of finance and in Mudhol and Gokak blocks the main reason for not rearing the birds was 'Religious Prejudice'.

Also in some of the blocks improved birds were reared. The highest estimated number of birds reared was found in Thirthalli block followed by Yadgiri, Mulbagal, Gokak, Sedum, Phatkal and Mudhol blocks.

Estimated number of eggs produced during the 'last week' and 'last one month' prior to the day of visit.

TABLE XI

Eggs produced during last week & last one month prior to the day of visit

sl.		Eggs produ		
No.	Elock	last week	last month	·
1. 2. 3. 4. 5. 6. 7.	Mulbagal Thirtalli Mudhol Bhatkal Gokak Sedum Yadgiri	12,792 ,40,538 14,589 1,691 56,451 29,567 43,159	34,384 62,888 46,490 15,735 87,011 2,49,923 74,153	,

It can be concluded that no family could get an egg per day in any of the blocks.

#### 2.9 MIDCH & MILCH ANIMALS

Estimated number of families rearing milch animals and estimated production of milk in litres are furnished in Table-XII & XIII

TAFLE XII
Families rearing milch animals

		Families	Number of families not rearing due to					
.cų	Block		lack of finance	Non-avai- lability	Non-ava- ilabili- ty of go-	Non-ava- ilabili-	Other reas- TOTAL ons(3)to(8)	
(1)	<u>ල)</u>	<u>(~)</u>	(4)	(::)	1s.(6)	()	(8) (8)	
1.	Mulbagal	6383 (30)	14970 (69)	167 (1)	-	<del>-</del>	- 21520 (100)	
2.	Thirtalli	. 10681 (48)	10547 (47)	909	-	<del>133</del> (1)	- 22270 (100)	
3.	Mudhol	585° (38)	5150 (33)	1095 (7)	394 (3)	· 1126 (7)	1813 15428 (12) (100)	
4.	Bhatkal	2335 (23)	7133 (69)	311 (3)	-	53 (1)	485 10317 (4) (100)	
5.	Gokak.	11333 . (45)	6505 (34)	426. (2)	94	. 267 (1)	4484 25109 (18) (100)	
6.	Sedum	355 <b>1</b> (26)	6149 (45)	1478 (11)	<u> </u>	2533 (18)	- 13711 (100)	
7.	\Yadgiri	5215 (19)	18483 (68)	-	-		3368 27066 (13) (100)	

N.B: Figures within brackets indicate the percentagesto the total.

In all the blocks majority of the estimated number of families did not fear milch animals. Lack of finance was the main reason in all the blocks for not rearing milch animals non-availability of place was the next reason for not rearing the milch animals in all the blocks except in Yadgiri block. In some of the blocks the other peasons for not rearing the milch animals were, non-availability of place and non-availability of good fodder etc.

<u>TABLE XIII</u>
No.of milch animals reared and production of milk.

's1.	Block	Type of milch -	No.of milch	Production of milk per	Yield of	D Disposa	l of Milk
No.	DIOCK	animals	anima ls	day in Li-	milk	Domestic	Disposal
_1.	2	3	4	5	6	7	88
1.	Mulbagal	Cows.	5504	7654	1.177	5230	6519
	•	She- Buffalors	3636.	4095 ((1:0.5)	1. 25	-	-
2.	Thirtalli	Cows. She- Buffalors	21433 F769	11778 3798 (1:0.5)	0.550 0.658	6232 <del>-</del>	1296 -
3.	Mudnol	Cows. She- Buffaloes	3877 1963	2993 8500 (1:2.8)	0.772 1.711	4517 -	1313. -

1	. 2	3	4	5.	6	7	3
·4.	Bhatkal	Cows. She- Buffaloes	1321 986	647 1609 (1:2.5)	0.490 1.632	1351 -	984 <del>-</del>
5.	Go ka k.	Cows. She- Buffaloes	4510 11056 . (	6069 19646 (1:3.2)	1.346 1.777	8998	1937
6.	Sedum	Cows. She- Buffaloes		3133 3493 (1:1.1)	1.394 2.803	1912	1173
7.	Yadgiri	Cows. She- Buffaloes	5209 2980 (	3810 3109 (1:0.8)	0.731 1.073	2782 <del>-</del>	2372 <del>-</del>

N.B: Figures withmbrackets indicate the production of milk in ratios (Cows to Buffaloes)

The yield rate of milk from cows was the highest in Mulbagal block followed by Sedum, Gokak, Yadgiri, Thirthalli and Bhatkal block, while the yield rate of milk from She-Buffaloes was the highest in Sedum blocks, followed by Mudgol, Gokak, Bhatkal, Mulbagal, Yadgiri and Thirthalli blocks.

#### 2.10 FISH CONSUMPTION

Estimated number of families consuming fish according to number of days in a month is furnished in Table XIV.

TABLE XIV

Families consuming fish according to no.of days in a month

		No.0	of fam:	ilies co	nsumin	g fish	n according	No.of fa	<del></del>
Sl.	Block			no.of d			<del></del>	milies-	Total
No.	,	One	Two	Thrue	Four		than Occasi-		
(T)	(a)	day (3)	<u>days</u>	<u>days</u>	days	four	days onally	suming f	rsu (m-
	Mulbagal	11088	606		503	140	5725`	3458	21520
		(52)	(3)		(2)		(25)	(16)	(100)
2.	Thirtalli	531	3248	1649	6392	5691	854	3905	22270
		(2)	(15)	(7)	(29)	(26 <b>)</b>	(4)	(17)	(100)
3.	Mudhol	1662	729	200	.165	_	598	12074	15428
		(11)	(5)	(1)	(1)		(4)	(78)	(100)
4.	Bhatkal		104		· 316	19377	_	520	10317
·			(1)		(3)	(91)		(5)	(100)
5.	Gokak	4299	1722	· 151	402	282	292	17961	25109
ï		(17)	(7)	• • •	(2)	(1)	(2)	(71)	(100)
6	Sedum	54	697				· _	12960	13711
0.	Sedum	. '4	(5)	_	_	_	_	(95)	(100)
_		- 4	• • •	-00	4000	-4-		• •	•
7•	Yadgiri	616%	2814	5 <b>9</b> 9	1888	713	10106	4779 (18)	27066
		(23)	(10)	(2)	(8)	(3)	. (36)	(18)	(100)

N.B: Figures within bracket indicate percentages to the total.

The majority of the families consumed fish in Mulbagal, Thirthalli, Bhatkal and Yadgiri blocks. In Mulbagal block majority of the estimated number of families consumed fish one day in a month and in Thirthalli block majority consumed four days in a month. In Bhatkal block majority consumed more than four days in a month and Yadgiri block, majority consumed occassionally.

#### CHAPTER III

#### Findings of dietry and Clinical Surveys

The Directorate of Health & Family Planning Sercices had taken up dietry and Clinical surveys in the 7 blocks in the selected two villages of each block.

The objectives of the dietry surveys were;

- (i) To find out whether existing diets were adequate compared to the recommended standards.
- (ii) To find out the reasons for inadequacy of the diet.
- (iii) To know the dietry pattern prevalent in the area.
  - (iv) To know the food habits beliefs if any prevalent in the area.
    - (v) To suggest means for improving the existing diet.

The data collected by the survey was compiled and further analysed at the Bureau of Nutrition and the quantitative intake of food consumed per day and the nutritious value of the diet are given in Tables III, IV, V & VI.

# 1. MUBAGAL BLOCK:

The staple food used in the two villages was rice. The intake of the cereals was 561gms. and 465 gms. when compared to the recommended quantity of 400 gms. The intake of pulses was only 20 gms. per day compared to the recommended quantity of 70 gms, The total consumption of vegetables including leafy vegetables was only 15 to 20 gms. as compared to the recommended quantity of 250 gms. The average consumption of milk and milk products was only 37 ml.

The daily diet in this block was only rice with 'Dhall Curry' or ragiballs or rotti with curry. No special food was reported to have been given to the children or pregnant or Nursing mothers — The nursing mothers were served with saltlessrice (sappe anna) for a few days and normal diet continued thereafter.

The Clinical nutrition survey of the vulnerable group of populamin d to find out the previlence of this block and 133 persons were exadisorders etc.,. The details are given in table III.

Out of 133 persons examined 3 persons had Vit. A deficiency, 2 persons had Vit. B deficiency, 1 person, had Vit. C deficiency, 3 persons were attacked by caries. No probable calerie malnutrition or rickets was observed among the children in the selected villages of the block.

#### 12. THIRTHATLI BLOCK:

The stable food used in this block was rice: The average consumption was 480 to 583 gms. in the two villages. The intake of milk and milk products was 119 ml. and 136 ml. The intake of all other "fooditem" incl-uding pulses was negligible. No special food was reported to have been given to the nursing mothers & children.

Out of 241 persons xamined, 27 persons had Vit.A deficiency, 4 persons had Vit. B deficiency, 45 persons had Vit C deficiency, 68 persons had caries and 18 persons had flurosis. Among 238 children examined only 5 children had protein ca o ie malnutrition and 2 children had rickets.

#### 3.MUDHOL BLOCK:

The staple food used in this block was 'Sajje' and 'Navane'. The average intake of cereals in the two villages was 453 gms. and 530 gms; intake of pulses was only 8 gms. and the intake of all other items of food was nil. The usual daily diet was sajje rotai or milets or rice with dhall curry. No special food was reported to have been given to the nursing mothers, pregnant women or children.

Out of 260 persons examined, 112 persons had Vit.A deficiency, 24 persons had Vit B Deficiency, 4 persons had Vit.C deficiency and 2 persons had caries. No protein calorie malnutrition or ricket cases were observed among the children.

#### 4 BHATKAL BLOCK:

The staple food used in this block was rice. The intake of all other food items except fish was nil. The intake of fish in the two villages was 37 gms. and 6.5 gms. respectively. No special food was reported to have been given to the nursing mothers and children.

Out of 283 persons examined 75 persons had Vit.A deficiency, 79 persons/vit.B deficiency, 22 persons had flurosies and 97 persons had caries. No protein calarie malnutrition cases were reported among the children. /had

#### 5. GOKAK BLOCK:

The stable food used in this block of the two selected villages was Jowar and rice and the intake of cereals was 375 gms. & 585 gms. while that of milk was 85 ml. and 110 ml. respectively. The intake of all other food items were nil.

In three P.H.C. areas of this block clinical survey was conducted. In Mudagi PHC area, out of 197 persons examined 12 persons had Vit A deficiency, 21 persons had Vit B deficiency, 8 persons had caries only one person had the attack of flurosies. In Akkathangariahal PHC area, out of 118 persons examined, 6 persons had Vit A deficiency, 3 persons had Vit B deficiency, 1 person had Vit C deficiency 9 perwere attacked by caries. No protien calorie malnutrition and ricket cases were reported among the children. In the Kuligod PHC area, out of 67 persons examined 18 persons had Vit A deficiency and no other deficiencies or disorders were observed in this PHC area.

#### 6. SEDUM BLOCK:

In this block, the staple food used was jowar. The intake of in the two villages selected was 467 gms. respectively, the intake pulses was only 9 gms. as compared with the recommended allowance of 70 gms. per day, the intake of vegetables, milk and milk products was marginal and the intake of all other 'food' was nil.

The daily diet in the block was jowar rotti and some of the families used 'Navane Anna' as their daily diet. The nursing mothers were provided with sappe anna (saltless rice) for a week and normal diet continued thereafter. No special food was given to the children.

Out of 110 persons examined, 7 persons had Vit A deficiency, 65 persons had Vit B deficiency and 47 persons had caries. No protein calorie malnutrition and rickets were reported among the children.

## 7. YADGIRI ELOCK:

In this block the staple rood used was 'Sajji' in addition to rice. The intake of cereals was 400 gms. The intake of milk and milk products was 30 ml. and the intake of all other food was nil.

Out of 266 persons examined, 148 persons had Vit. A deficiency and 58 persons had Vit B deficiency. In the Karkal PHC area, out of 124 persons examined, 20 persons had Vit C deficiency, 20 persons had oarries or rickets. In Yargal PHC area, out of 142 persons examined, 24 persons had Vit A deficiency and 43 persons had Vit. B deficiency..

In general the dietry and clinical survey in the 7 blocks revealed that cereals were consumed most and the consumption of pulses and other food items were inadequate when compared to the recommended dozes. The existing diets have to be improved and adequate protective foods should be supplied to make up a balanced diet.

TAELE I

Average consumption of food stuffs per consumption unit per day in gms.

Sl.	Blocks	Cere	Pul ses	G.Nut	Oth er- oil	Vege tab- les	Fru- its	Milk & oth er mi lk pr oducts	Nuts	Me at	Su- gar	Gur	Others
1_	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Mulbagal	861	50	14	_	101	-	77	17	20	3	22	-
2.	Thirthall:	i680	32	12	3	109	33	100	36	8	20	113	6
3.	Mudhol	752	66	19	3	108	-	102	9	8	31	52	3
4.	Bhatkal	566	13	3	5	31	_	41	′	2	17	12	5
5.	Gokak	650	52	<b>2</b> 6·	4	9	55	13	19	6	24	36	3 `
6.	S dum	524	85	19	_	132	82	71 `	-	10	26	34	
7.	Ya <b>dgiri</b>	770	77	19	-4	109	110	29	~	24	26	<b>⊼1</b>	<b>-</b>

Number of villages and Households survey d with the period of survey in A.N.P.Blocks of 1973-74 series

Sl. No.	District	Block	Number of villages	Number of household	אסטיאווא דח חחויאסע
1.	Kolar ·	Mulbagal	20	200	3.11.73 TO 1.8.74
2.	Shimoga	Th irthall i	20	200	10.11.73 TO 19.8.74
3•	Bijapur	Mudhol	20	200	7.12.73 TO 30.8.74
4.	N. Kanara	Bhatkal	22-	. 220	18.11.73 TO 30.4.74
5.	Belgaum	Gokak	50.	500	7.11.73 TO 10.9.74
<sup>-</sup> 6.	Gulbarga	Sedum .	20	200 🐧	
7.	Gulbarga	Yadgiri	40	400 0	2.12.73 TO 13.6.74

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<u>TABLE III</u>

PREVALANCE OF NUTRITIONAL DEFICIENCIES AND DISORDERS IN MULBAGAL BLOCK (KOLAR DISTRICT)

₽.	Name of the villages	Total No. children Preg.and	Vit.		Vit def	.'B' fe	Flou	couis	Car	ies		.'C' fe.	No.of child.	Ri ke		Prot	.cal.	ъ. В. S.
<b>_</b>	Hame by the viringon	Nursing mothers	. cM	%	No.	% 	No.	%	No.	%	No.	%	0 - 14 EXAMINED		%	No.	% 	
1.	Bayapalli	11	_	_	-	-	-	-	-	-	-	-	_ 11	_		-	-	•
2.	Padamghatta.	12		-	-	-	-	-	-	-	-	-	12	<b></b> .		-	-	
3.	Upparhalli.	13		-	1	7.7	-	-	· <del>-</del>	<b>'</b>	<b></b> .	-	13		-	_	-	
4.	Nagali.	15	-		-	-	-	-	-	<u>~</u>	-	-	15	-	-	-	-	
5.	Chilteri.	10	-	-	-	-	-		-	-		-	10	<b>-</b> .	***	<u>.</u>	-	
€.	Achanpalli.	10	-	<b>-</b> ·	-	-	-	-	_	-	-	-	10		-	- `	-	
7.	Gudrapalli.	14 .	-	-	-	-	-	-	-		-	-	14	_	-	_	-	
8.	Doddagunki.	12	-	· _	1	8.33	-	, <b>-</b>	÷		-	_	12	-	-	-	-	
9.	Kavatanahalli.	10 ′		-	-	_	-	-		-	-	_	10	_	-	. –	-	
10.	Timmapura.	6	1	16.6		<b>-</b> .		-	-	-	-	`	6	-`	-	-	-	
Ŋ,	Gukunta.	10	2	<u>2</u> 0	-	_	-	-	3	30	1	10	7	_	-		-	•
<b>2</b> .		10	-	-	-	-	**	***		-	-		10	-		. <b>-</b>	-	
	TOTAL	 133	3	36.6	2	16.03			3	30	1	10	130			_	_	

TABLE - IV

VILLAGE-WISE PER CAPITA CONSUMPTION OF FOOD STUFFS IN GRAMS

Sl. No.	Village	Block	District	Cereals	Pulses	Leafy vege- tables	Root vege- tables	Other vege- tables	Milk and prod.	Oils and fats	Fish	Miscellaneous		
1.	Muddapur	Mudhol	Bijapur	453	4.9	27.3	1.5	<del></del>	1.3	_	. <del>-</del>	16.0		
2.	Halki.	Mudhol	Bijapur	430.4	11.7	5.8	2.3	5.8	18.5	-	•	. 16.0		
3.	H.Byappalli.	Mulbagal	Kolar	561.5	20.5	18.1	2.5	18.6	24.5	2.5		4.5	•	
4.	Upparahalli.	Mulbagal	Kolar	465.3	16.1	-	11.5	3.0	50.02	1.5	_	·		
5.	Allipur	Yadgiri	Gulbarga	378.7	-	-	<b>-</b> .	-	30.3	-	<del>-</del> ·			
6.	Kanchigara- halli.	Yadgiri	Gulbarga	441.3	19.5	13.05	2.05	15.55	16.05	2.01		10.5		
7.	Ribbonpalli.	Sedum	Gulbarga	462.0	13.0	9.5	<b>.</b>	1.5	2.5	-	-	-		
8.	Silarkot	Sedum	Gulbarga	445.1	4.5	30.8	•••	30.4	6.5	1.5.	-	_		
9.	Konar	Bhatkal	Karwar	385	14	18	-	12.3	· _	_	37	63		
10.	Shirali.	Bhatkal	Karwar	481	1.0	9	_	2.7	-	-	6.5	65 -		
11.	Heggodu.	Thirtha-	Shimoga	480	1.1	18	_	-	119	-	· <b>-</b>	- 63		
1.2.	Melige. ' .	ll <u>i</u> "_	-11-	583	21	<u>-</u>	_	2.7	136	-	-	19		
	Franhatty.	Gokak	Delgaum	374.5	_	-	· <u>-</u>	1.12	88	_	-	11.7		
14.	•	Gokak	Belgaum	530.6	3.9	_	_	0.07	110.8	-	-	110.9		

TABLE -- V

NUTRITIVE VALUE OF THE DIITS PER CONSUMPTION UNIT(VILLAGEWISE)

Sl. No.	Village	Block	District	Calo- ries	Protein gms.	Calcium mgm.	Iron mgm.	Vit.'A' I.U	Vit.'B' mgm.	Vit.'D2' m <sub>s</sub> m	Vit.'C'	
1.	Muddapur	Mudhol	Dijapur	2152	63.9	221	35.2	1328	0.59	0.17	2.0	
2.	Halki.	-do-	Bijapur	1984	60.0	238	34.3	1242	0.06	0.04	_	
3.	H.Byanpali.	Mulbagal	Kolar	2034	47.0	1329	56.2	1045	1.77	0.56	_	
4.	Upparahalli.	-00-	Kolar	1701	39.5	978	55.3	265	1.24	0.35	<u></u>	
Ę.	Allipur.	Yadgiri.	Gulbarga	1565	35.2	255	_	325	0.75	0.25	_	
€.	Kanchigara- halli.	Yadgiri.	Gulbarga.	1536	62.3	250	56.5	1234	2.62	0.41	_	
7.	Ribbonpalli.	Sedum.	Gulbarga.	1595	56.0	260	50.3	1052	1.36	0.39	-	
٤.	Silarkot.	Sedum.	Gulbarga.	1562	48.7	. 208	31.6	1661	0.36	0.25	-	
٠.	Konar.	Bhatkal.	Karwar.	2944	67.8	130.7	26.1	1736	0.875	0.821	1.67	
10.	Shirali.	Bhatkal.	Karwar.	1715	37.3	98.0	23.1	2072	1.006	0.08	6.64	
11.	Heggo-du	Thirthalĺi	.Shimoga.	2002 .	40.1	314	27.3	1904	1.605	- 1.021	2.47	
12.	Melige.	-do-	-do-	2449	49.6	468	60.8	1326	1.9	1.38	<b>3•9</b> .	
13.	Eranhatty.	Gokak.	Belgaum.	2346	39.5	258.6	24.5	768.6	1.3	J.9	0.87	
14.	Thinna pur.	-do-	-do-	2430	52.6	295.4	27.6	234.0	13.3	0.71	0.03	

TABLE-VI

PREVALANCE OF NUTRITIONAL DEFICIENCES AND DISORDERS

1. Name of p. H.C.	Block	District	No.of villa- ges su-	Total no.ch- ildren preg -	Vit 'A'	Vit.'B' defici- ency	Flour	ouis	<u>Cari</u>	.es	def	'C' ici-	No.of child. O -14 exami-		ekets	ca	ot. 1.
			rveyed	women & nursing mother	No. %	No. %	No.	%	No.	%	No.		ned	No.	%		# Nu
1.Loka pur	Mudhol	Bijapur	12	· 260	112 43	24 9.23			2	.76	4	1.5	138	-			
2. Konandur.	Thirthalli	.Shimoga.	12	241	27 11.2	4 1.65	18	7.46	68Æ	3.2	45,	18.67	238	2	.84	5	2.1
3.Kuligod.	Gokak.	Belgaum.	4	.67	18 26.86		-		-	-	_	<b>-</b> ,	32	_	_	_	
1.Akkatang- erhal.	-do -	-do -	4 .	118	6 5.08	3 2.54	-	-	9 7	.62	1	0.84	100	-	-	-	-
5.Mudalgi.	-do-	-do-	8	197	12 6.08	21 10.65	1	0.5	8 4	.6	6	3.04	119	· _	_		-
6.Konkal.	Yadgiri.	Gulbarga.	10	124	69 55•.64	27 21.77	_ `	_	2016	.12	20	16.12	31	-	_	_	´ <b>–</b>
7. Yergol.	-do-	-do-	5	142	24 16.97	48 33.8	-	-	3 0	. 21		-	102	-	· -	_	_
3.Mudhol. '	Sedum.	-do-	11	110	7 6.36	65 59.09		-	47 42	7,2	-	_	_	_	_	_	_
3. Shirali.	Bhatkal.	Karwar.	10	283	75 26.5	79 27.91	22	7.77	9734	. 27	_	-	245	_	-	- '	. <b>-</b>
:0.Mulbagal.	Mulbagal.	Kolar.	12	133	3 2.5	2 1.5		-	3 2	. 25	1	.076	130	-	. =	-	_
,																	