



SRI LANKA

**FOOD
BALANCE SHEET
1991 - 1995**

(Revised Series)

**DEPARTMENT OF CENSUS AND STATISTICS
MINISTRY OF FINANCE AND PLANNING**

FOOD BALANCE SHEET 1991 - 1995

(Revised Series)

The Government of Madras is pleased to announce that the Government of India has approved the proposal for the construction of a road from the Government of Madras to the Government of Andhra Pradesh and the Government of Karnataka. The Government of Madras is pleased to announce that the Government of India has approved the proposal for the construction of a road from the Government of Madras to the Government of Andhra Pradesh and the Government of Karnataka.

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Secretary

Government of Madras

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INTRODUCTION

HISTORY AND DEVELOPMENT OF FOOD BALANCE SHEETS (I)

During World War II the need arose for a working basis on which the Combined Food Board (representing Canada, United Kingdom, and United States of America) and other governmental agencies might equitably distribute foods in short supply in a way that would promote the successful prosecution of the war. This need gave considerable stimulus to the study of food consumption levels and of the nutritional requirements of the populations in the countries concerned, as well as to an appraisal of the effects of the dietary changes that were taking place under wartime conditions. Much work of this nature had already been done by nutritionists and agricultural economists in the pre-war years, but no regular comprehensive comparisons had been made of total national supplies of food in different countries, with evaluation of their nutrient contents.

In 1942,, however, the Inter-Allied Committee on Post-war Requirements made a number of studies, through the use of food balance sheets, on post-war food requirements in European countries. The following year, a joint committee of experts from Canada, the United States of America, and the United Kingdom published its first report, Food Consumption Levels in the United States, Canada, and the United Kingdom, in which a more detailed food balance sheet technique was employed and developed.

Similar studies were undertaken at a later date during and after the war, when estimates were needed for the feeding of the civilian population in countries occupied by allied forces as well as for the food requirements of UNRRA. this work was done under severe handicaps, since, owing to the displacement of statistics during the war, adequate official data on crop and livestock production were often not available. Nevertheless, considerable development was made in the technique for estimating food consumption levels by food balance sheet methods.

In 1946, this same technique was used in the FAO publication, World Food Survey, in which detailed figures are given for 70 countries, showing food consumption levels existing before the war and the increase in food supplies needed to reach nutritional target levels by 1960. FAO has since continued to use food balance sheets for analyses of the food situation in individual countries.

Nevertheless, owing to the lack of adequate data, the food balance sheets prepared by FAO for many countries are still only rough approximations. In fact, for some of the less advanced countries, in which acceptable estimates very seldom exist even for crop production, it has proved impracticable to construct even the most rudimentary balance sheet. Recognizing that the food balance sheet is a useful tool in the analysis of progress made in improving the food position in all countries, the Conference of FAO at its Fourth Session in Washington in 1948 recommended:

(I) Hand Book for the preparation of Food Balance Sheets April 1949 Food and Agriculture Organisation of the United Nations.

(1) that member governments be asked to prepare food balance sheets according to a uniform pattern and submit them to FAO; as a means of assisting governments in the preparation of such food balance sheets FAO should distribute as soon as possible a manual setting forth the technique developed for the preparation of food balance sheets;

(2) that FAO provide direct assistance in this work to those governments which find it difficult to prepare food balance sheets;

(3) that, in order to promote comparability in the presentation of food consumption data in terms of calories and nutrients, FAO continue work on food composition and make available to governments food composition tables (provisionally based on the methods recommended by the Committee on Calorie Conversion Factors and Food Composition Tables which may be used in the preparation of food balance sheets;

(4) that food balance sheets be published as soon as possible for those countries with adequate data, after consultation with the governments concerned, and that in the future food balance sheets for as many countries as possible be published regularly.

Accordingly, governments have been asked to submit their own revisions balance sheets prepared by FAO for pre-war and for 1947/48 and are being asked furnish their own food balance sheets for 1948/49 and subsequent periods.

Two handbooks are at present being issued to serve as a guide to govern in the construction of food balance sheets on a uniform procedure, so that the greater degree of comparability in preparation of the data will be possible.

By constructing food balance sheets with the aid of those handbooks, it is hoped that interest will be stimulated in the study of food consumption levels and diets and that, as a result, governments will use the information brought to light by this techniques to plan their food production and trade programs and to improve the nutritive value of the national food supply.

It is recognized that food balance sheets will continue to remain an imperfect tool in the examination and improvement of national food programs until the range and accuracy of national statistics on food and agriculture have been greatly increased. It is hoped, however, that compilation by governments of their own food balance sheets will lead to considerable improvement both in national statistics and in balance sheet.

(2) WHAT IS A FOOD BALANCE SHEET?

The total quantity of foodstuffs produced in a country, added to the total quantity imported and adjusted to any change that may have occurred in stocks since the beginning of a given period, gives the total food supply available in that period. When the following are deducted from this value : the quantities exported, fed to livestock, used for seed or put into industrial and other non-food uses, as well as losses owing to wastage of all kinds, the remaining quantities represent the food supplies available for human consumption during the period.

Such an analysis is made for each commodity entering into human consumption, and the per capita supply of each food for human consumption is then obtained by dividing the balance by the population figure. The nutrient contents of these supplies expressed per person per day are derived by applying the appropriate nutrient conversion factors available .

It is important to note that the food supply for human consumption, as estimated by food-balance-sheet methods, relates simply to the quantities of food available for the consumer but not necessarily to the food actually consumed by the population. Wastage on the farm in distribution or in processing, and other wastage occurring before foods reach the consumer, are taken into consideration. However, the amount of food actually consumed may be slightly or appreciably lower according to the degree of waste in the preparation and cooking of foods, as well as in plate waste, i.e., the waste of edible material that is not eaten. At the same time, it should also be emphasized that the estimates must cover all the available food supplies, including those not recorded in official statistics - such as those from the smallest farms, home gardens, and other like sources.

(3) IMPORTANCE OF THE FOOD BALANCE SHEET

Food balance sheet shows the quantities and types of food available for consumption in any country and give the content of the food supply expressed in terms of nutrient value. Annual food balance sheets, tabulated regularly over a period of years for each country, will show the trends in the overall national food supply, disclose changes that may be taking place in the types of food consumed, and reveal the extent to which the food supply of the country as a whole, though not of different groups in the community, is adequate in relation to nutritional requirements. In conjunction with other economic indices, serve as a useful means of measuring how agricultural production per person compares with previous levels and may disclose the significant, and possibly permanent, changes in the pattern of agriculture, trade and the content of the national diet.

Provided that methods of calculation are comparable from one country to another, food balance sheets for any given period may also be used, within limitations, to compare the national average food supplies and the quantities of calories and nutrients available to the population as a whole in different countries. In practice, the types and composition of foodstuffs produced, and the coverage and quality of statistics concerning them, vary so widely from country to country that strict comparability is difficult to attain; therefore, comparison of the food balance sheet for one country with that for another may be seriously misleading, unless due account is taken of such differences.

Food balance sheets, by bringing together a large part of the food and agriculture data in each country, also serve as a focal point for a detailed examination and appraise of the food and agricultural situation in a country. For example, comparison of the quantities of food available for human consumption with those imported, as shown in a food balance sheet, will indicate the extent to which a country is depending upon imports to meet its food requirements. The quantities of food crops used for feeding livestock, in relation to total crop production, may indicate the degree to which primary food resources are being utilized to produce animal foods and may serve as useful data in an analysis of livestock policy or of the pattern of agriculture. Comparison of losses through food wastage from country to country, as estimated in food balance sheets, may stimulate interest in making more accurate assessments of such wastage and may lead to effecting diminution of waste where it is unnecessarily high.

Finally, food-balance-sheet technique may also be used in forecasting the food supplies likely to be available from home production in any country, if reasonably reliable estimates of crop and livestock production and utilization could be provided in advance.

(4) SRI LANKA FOOD BALANCE SHEET

The Department of Census & Statistics is responsible for the compilation of annual food Balance Sheet in Sri Lanka which is being prepared in a systematic manner since 1950 according to the guidelines laid down by the F.A.O. However, no annual publication has been released until 1983 and from the inception up to 1983 It was limited to a main sheet with out descriptions. Since 1983 the Department had taken steps to issue as a small booklet in a descriptive form.

(5) DAILY RECOMMENDED NUTRIENT ALLOWANCES FOR SRI LANKA

Setting up scales of requirements or recommended allowances for use in a particular country is a formidable task and requires the services of highly qualified scientists specialised in physiology and nutrition. Details about the age, sex, body weight, height, occupation etc. are required to set up the scales of nutrient requirements. Information should also be available which will enable occupation to be classified according to the broad degrees of activity adopted in the scales.

The following table gives the Daily Recommended Nutrient Allowances for Sri Lanka, prepared by the Department of Nutrition, Medical Research Institute, Colombo, Sri Lanka.

DAILY RECOMMENDED NUTRIENT ALLOWANCES FOR SRI LANKA

		Weight Kg.	Calo- ries	Pro- tein	Cal- cium mg.	Iron Mg.	Vita-min A meg.	Vita- min D meg.	Thia- mine meg.	Mico Plavin Meg.	Nia-cin Mg.	Asco- bic Acid Mg.
7-12 months	M&F	7.3	818	19	550	10	300	10.0	300	500	5.4	20
1-3 years	M&F	12.0	1212	24	450	10	250	10.0	500	800	9.4	20
4-6 years	M&F	18.2	1656	31	450	10	300	10.0	700	1100	12.1	20
7-9 years	M&F	26.2	1841	35	450	10	400	2.5	900	1300	14.5	20
10-12 years	M	34.0	2414	45	650	10	575	2.5	1000	1600	17.2	20
10-12 years	F	36.0	2238	46	650	10	575	2.5	900	1400	15.5	20
13-15 years	M	49.0	2337	49	650	18	725	2.5	1200	1700	19.1	30
16-19 years	M	51.0	2500	51	550	9	750	2.5	1200	1800	20.3	30
20-39 years	M	55.0	2530	52	450	9	750	2.5	1200	1800	19.8	30
40-49 years	M		2404	52	450	9	750	2.5	1200	1800	19.8	30
50-59 years	M		2277	52	450	9	750	2.5	1200	1800	19.8	30
60-69 years	M		2024	52	450	9	750	2.5	1200	1800	19.8	30
70 years	M		1771	52	450	9	750	2.5	1200	1800	19.8	30
13-15 years	F	40.0	2300	46	650	24	725	2.5	1000	1500	16.4	30
16-19 years	F	43.8	2200	42	550	28	750	2.5	900	1400	15.2	30
20-39 years	F	47.0	1900	41	450	28	750	2.5	900	1300	14.5	30
40-49 years	F		1805	41	450	28	750	2.5	900	1300	14.5	30
50-59 years	F		1710	41	450	28	750	2.5	900	1300	14.5	30
60-69 years	F		1520	41	450	24	750	2.5	900	1300	14.5	30
70 years	F		1330	41	450	24	750	2.5	900	1300	14.5	30
pregnancy												
	1st half		+150	46	1000	40	750	10	900	1400	15.2	30
	2nd half		+350	15	1000	40	750	10	+100	+200	+2.3	30
LACTATION			+550	28	1000	40	1200	10	+200	+400	+3.7	30

Protein allowance on basis of chemical score of 60 for local diets.

Reference

- (1) Energy and Protein Requirements- World Health Organization Technical Report Series No.522 (1973).
- (2) Handbook of Human Nutritional Requirements - W.H.O. Monograph Series 61 (1974) Department of Nutrition, Medical Research Institute, Colombo 8. CGH/January 1976.

Source: An analytical description of POVERTY IN SRI LANKA-

(6) REVISED FOOD BALANCE SHEET 1991-1995

It has been decided to revise the basis of computation of the FBS and prepare this publication giving annual food balance sheet covering the period from 1991-1995 incorporating the revised base information. It may be mentioned here that the annual food balance sheet for years 1991 upto 1994 have been already published using the original baseline data and make available for users . The present publication thus contains the revised series from 1991 - 1994 and the food balance sheet for the year 1995 based on the new computation. Some of the major reasons for making the revision are as follows:

- (a) To a greater extent the Department of Census & Statistics (DCS) depends on various agencies for the statistical information that are being used to compute the Food Balance Sheet. As soon as the calendar year is over, the DCS requests the various sources departments/ Agencies Organizations both private & Government who collect the information for their administrative purposes. At the time of data collection it was very often found that quoted information by these sources are in a form of provisional or tentative nature. It was also found that data has been revised latter.
- (b) Food habits and items in the food basket etc. of the people have changed over the period due to various reasons such as price changes, import policies, new technological innovation pertaining to preparation of food, etc. These factors would certainly affect the consumption pattern of the habitats. However, it is not possible to frequently measure these changes but by adhoc types of surveys that are undertaken. The DCS has undertaken such type of family budget surveys "Socio Economic survey in 1985/86 and again "House hold income and expenditure survey in 1990/91." For the revised series of food balance sheets, the values reported in the 1990/91 survey have been used while in the previous series values obtained in 1985/86 survey was used.
- (c) The nutritional values used for different type of food items in the previous series were based on by FAO reference materials. Revised series have been based on the "Table of Food Composition -for use in Sri Lanka" by medical Research Institute- Colombo published in 1989.
- (d) Some manual errors that had been occurred during the preparation of last issues were detected and corrected in the revised series.

(7) COMPONENTS OF FOOD BALANCE SHEET

The main components of the Food Balance Sheet are:

Supply

- i. Production
- ii. Change in Stocks
- iii. Gross Exports
- iv. Gross Imports
- v. Available Supply

Distribution

- i. Animal Feed
- ii. Seed
- iii. Manufacture
- iv. Waste
- v. Food Gross
- vi. Extraction Rates
- vii. Food net

Per Capita Availability

- i. Grams Per Day
- ii. Kgs. Per Year
- iii. Calories Per Day
- iv. Protein in Grams Per Day
- v. Fat in Grams Per Day

(8) RESULTS

The per capita supply of food during the year 1994 shows an increase compared to the previous years 1991-1993, particularly, the commodities such as Maize, Wheat flour, Sugar, Cowpea / Dhall, Ground nuts, T.V.P, Cow milk, Coconut, Coconut oil, Margarine and Butter. But during the year 1995 shows a marginal drop in some of the commodities such as Maize, Sugar, Cowpea / Dhall, Ground nuts, T.V.P, Cow milk, Coconut, and Coconut oil compared to 1994. However, the availability of Wheat flour and animal based food commodities such as Meat shows a substantial increase compared to the year 1994.

Calories

The daily per capita availability of Calories in 1995 recorded a slight decrease of about 1.9 percent over the previous year. This is attributed to the decline in vegetable based food commodities such as Rice, Sugar, Pulses & nuts. But animal based food commodities have been recorded a substantial increase of about 5.2 percent in 1995.

Protein

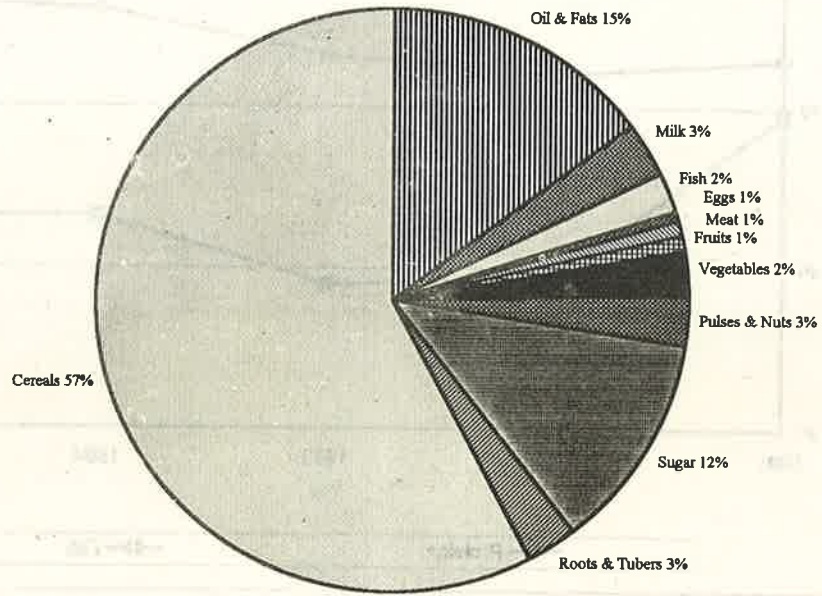
The daily per capita availability of Protein in 1995 recorded a slight increase over the previous year. This is mainly attributed to the increase in Wheat flour, Soya beans, Meat and Milk products.

Fat

Although the overall per capita availability of Fat per day in 1995 doesn't show a wide variation compared to 1994, fat originated from animal based food commodities shows a substantial increase of about 7 percent.

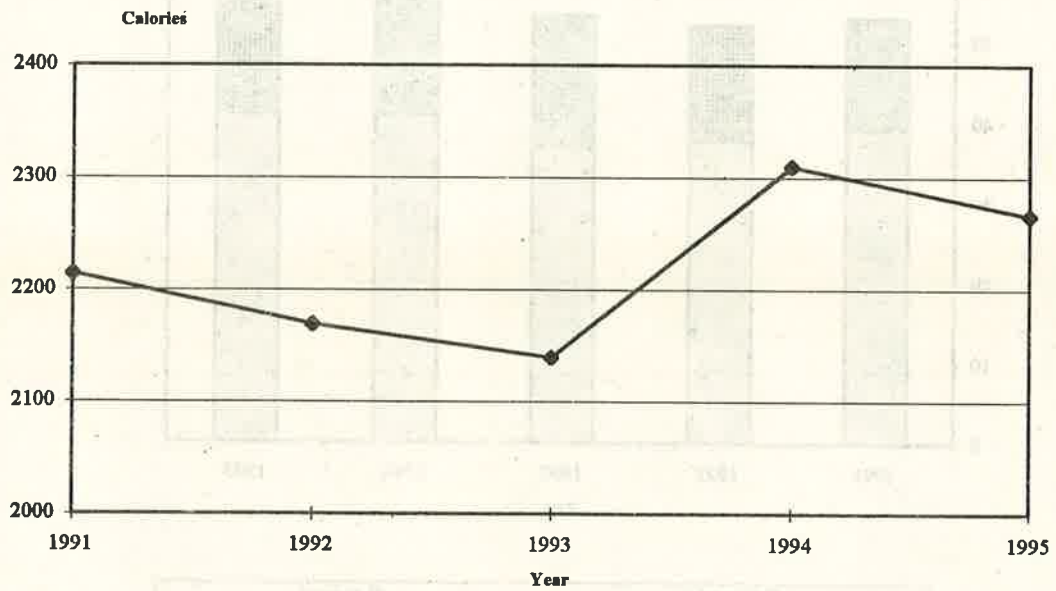
Graph - A

Per Capita Availability of Calories by Source
1995



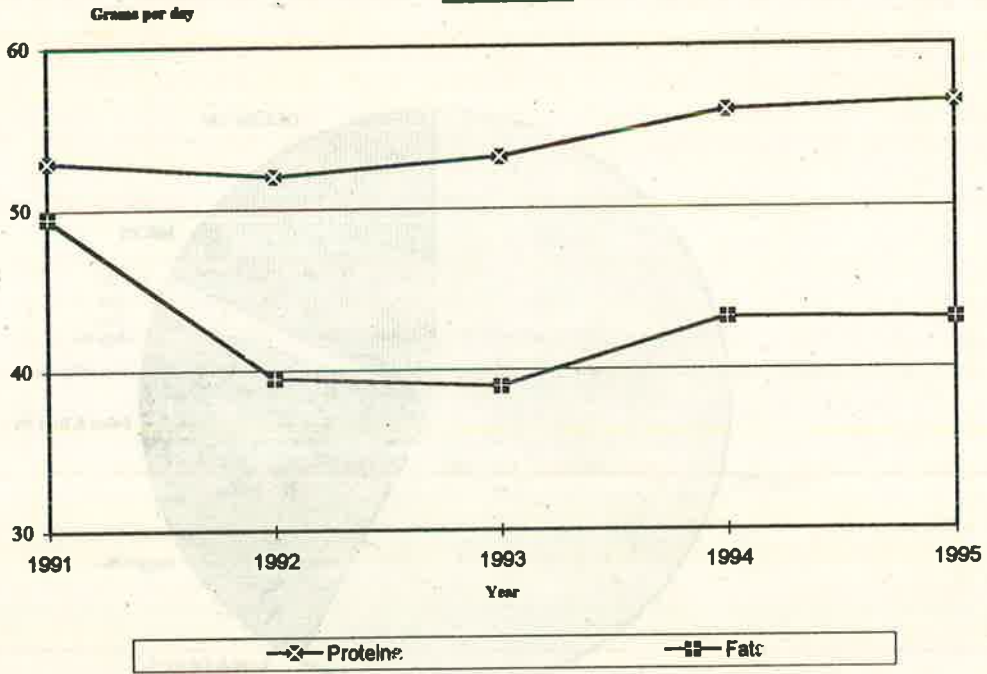
Graph - B

Per Capita Availability of Calories (per day)
1991 - 1995



Graph - C

Per Capita Availability of Protein & Fat (per day)
1991 - 1995



Graph - D

Per Capita Availability of Protein by Source
1991 - 1995

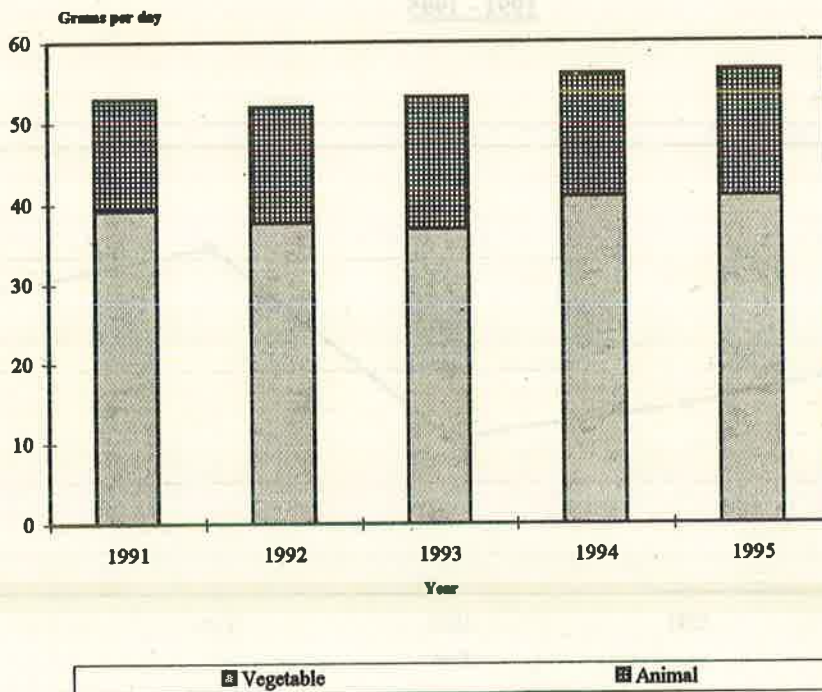


Table 1:-

CALORIES , PROTEIN , AND FAT AVAILABILITY BY COMMODITY 1991 - 1995

Commodity	Calories (No.)					Protein: (Grams)					Fat (Grams)				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Cereals	1,293.78	1,253.41	1,210.23	1,282.25	1,306.26	28.91	27.87	26.95	29.13	30.07	2.22	2.17	2.10	2.37	2.44
Roots & Tubers	80.41	69.98	70.10	66.42	64.24	0.51	0.47	0.45	0.44	0.43	0.11	0.10	0.10	0.09	0.09
Sugar	271.34	268.54	277.79	328.88	275.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pulses & Nuts	60.49	52.97	54.81	75.70	62.46	4.36	3.87	4.01	5.78	4.83	0.49	0.40	0.60	1.02	0.98
Vegetables	50.27	51.04	49.23	50.57	51.93	2.26	2.28	2.22	2.27	2.31	0.31	0.32	0.31	0.31	0.32
Fruits	19.92	20.73	21.19	22.28	21.89	0.47	0.38	0.39	0.40	0.40	0.36	0.36	0.36	0.37	0.37
Meat	11.80	13.14	13.38	13.01	16.74	1.45	1.68	1.87	2.07	2.48	0.67	0.71	0.66	0.52	0.76
Eggs	12.01	12.32	12.83	12.75	12.56	0.92	0.95	0.99	0.98	0.97	0.92	0.95	0.99	0.98	0.97
Fish	48.74	51.30	59.53	50.82	51.69	8.36	8.81	10.56	8.99	8.97	1.48	1.56	1.66	1.43	1.56
Milk	64.41	62.40	61.76	65.04	68.22	3.06	2.89	2.90	3.06	3.24	3.73	3.72	3.64	3.81	3.97
Oil & Fats	300.75	313.21	308.22	341.71	334.98	2.65	2.82	2.84	2.88	2.84	39.35	29.18	28.56	32.28	31.61
Total	2,213.92	2,169.04	2,139.07	2,309.43	2,266.15	52.95	52.02	53.18	56.00	56.54	49.64	39.47	38.98	43.18	43.07

Table 2 :-

PER CAPITA AVAILABILITY OF CALORIES, PROTEIN AND FAT FROM VEGETABLE AND ANIMAL RESOURCES

1991 - 1995

Year	Calories per day		Protein: (Grams/day)		Fat (Grams/day)	
	Total	Vegetable	Total	Vegetable	Total	Vegetable
1991	2213.9	2075.7	138.2	13.8	49.5	42.6
1992	2169.0	2028.5	140.5	14.4	39.5	32.4
1993	2139.1	1990.3	148.8	16.3	39.0	31.9
1994	2309.4	2165.9	143.5	15.1	43.2	36.3
1995	2266.2	2115.2	151.0	15.7	43.1	35.6
						6.9
						7.1
						7.1
						6.9
						7.4

FOOD BALANCE SHEET - 1991 (Revised)

Unit: '000 Mt (if not otherwise specified)
Mid Year Population: 17,247,000

Commodity	Production, Foreign Trade & Availability							Distribution					Per Capita Availability					
	Production	change	Gross	Gross	Available	Animal	Seed	Manuf-	Waste	Food	Extr:	Food	Kgm:	Gms:	Calories	Prot:Gm	Fat Gms.	
	1	2	3	4	5	6	7	8	9	10	11	12	per yr:	per day	Per day	per day	Per day	
A.Cereals																		
1.Rice	2389.00	-154.33		195.53	2739.06	0.89	34.08		164.34	2539.74	68	1727.02	100.13	274.34	949.22	18.11	1.23	
2.Kurakkan & Meneri	7.70				7.70		0.04		0.23	7.43	90	6.69	0.39	1.06	3.48	0.08	0.01	
3.Maize	33.49				33.49	10.70	0.23		1.00	21.56	90	19.40	1.13	3.08	11.16	0.29	0.12	
4.Sorghum	0.09				0.09		0.00		0.00	0.08	90	0.08	0.00	0.01	0.04	0.00	0.00	
5.Wheat Flour		-107.64		494.70	602.34	0.19			5.42	596.73		596.73	34.60	94.79	329.88	10.43	0.85	
Total Cereals															1293.78	28.91	2.22	
B.Roots & Tubers																		
1.Potatoes	66.74				66.74		6.16		6.67	53.91		53.91	3.13	8.56	8.31	0.14	0.01	
2.Manioc	358.81				358.81	1.26			107.64	249.91		249.91	14.49	39.70	62.33	0.28	0.08	
3.Sweet Potatoes	73.29				73.29				21.99	51.30		51.30	2.97	8.15	9.78	0.10	0.02	
Total Roots & Tubers															80.41	0.51	0.11	
C.Sugar																		
1.Refine(Sugar)	66.43	-1.31		358.43	426.17					426.17		426.17	24.71	67.70	270.79		0.00	
2.Jaggery	1.01				1.01					1.01		1.01	0.06	0.16	0.55	0.00	0.00	
Total Sugar															271.34	0.00	0.00	
D.Pulses & Nuts																		
1.Green Gram	26.58				26.58		0.30		0.80	25.48		25.48	1.48	4.05	14.09	0.99	0.05	
2.Soya Bean	1.98			3.02	5.00	3.16	0.07		0.15	1.62		1.62	0.09	0.26	1.11	0.11	0.05	
3.Cowpea & Dhall	22.45	-0.46		55.24	78.15		0.23		2.34	75.58		75.58	4.38	12.01	40.05	2.86	0.14	
4.Ground Nuts	4.33				4.33		0.41		0.13	3.79		3.79	0.22	0.60	3.41	0.15	0.24	
5.T.V.P.	0.99			2.12	3.11					3.11		3.11	0.18	0.49	1.83	0.25	0.01	
Total Pulses & Nuts															60.49	4.36	0.49	
E.Vegetables																		
1.Vegetables (Excl. Onions)	615.67				615.67					615.67		615.67	35.70	97.80	43.96	2.06	0.30	
2.Onion	55.68			48.69	104.37		5.70		31.31	67.36		67.36	3.91	10.70	6.31	0.19	0.01	
Total Vegetable															50.27	2.26	0.31	
F.Fruits																		
1.Fresh	124.71		1.40	1.37	124.68			2.10		122.58		122.58	7.11	19.47	17.97	0.35	0.34	
2.Dried (Dates, Grapes)				29.02	29.02					29.02		29.02	1.68	4.61	14.61	0.12	0.02	
Total Fruit															19.92	0.47	0.36	

1991 Contd.

Commodity	Production, Foreign Trade & Availability					Distribution						Per Capita Availability						
	Production	change in stocks	Gross Exports	Gross Imports	Available Supply	Animal Feed	Seed	Manuf-acture	Waste	Food Gross	Extr: Rate	Food Net	Kgm: per yr:	Gms: per day	Calories Per day	Prot:Gm per day	Fat Gms. Per day	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
G.Meat																		
1.Beef	23.27			0.07	23.34					23.34		23.34	1.35	3.71	7.49	0.70	0.52	
2.Pork	2.22				2.22					2.22		2.22	0.13	0.35	1.31	0.05	0.12	
3.Mutton (Goat & Sheep)	1.58			0.33	1.91					1.91		1.91	0.11	0.30	0.36	0.06	0.01	
4.Poultry	14.80			0.47	15.27					15.27		15.27	0.89	2.43	2.64	0.63	0.01	
Total Meat															11.80	1.45	0.67	
H.Eggs																		
1.Fresh Fish	44.50			0.00	44.50		0.78		0.02	43.70		43.70	2.53	6.94	12.01	0.92	0.92	
2.Dried & Salted fish	198.06			0.22	198.28	0.36		25.66	59.48	112.78		112.78	6.54	17.91	24.07	3.47	0.98	
3.Tinned Fish	12.93	-0.01		43.89	56.82	0.01				56.82		56.82	3.29	9.03	22.12	4.58	0.36	
Total Fish				9.30	9.31					9.30		9.30	0.54	1.48	2.55	0.31	0.14	
															48.74	8.36	1.48	
J.Milk																		
1.Cow Milk	176.37			0.00	176.37			49.65		126.72		126.72	7.35	22.10	14.81	0.71	0.91	
2.Buffalao Milk	59.87				59.87			1.75		58.12		58.12	3.37	9.23	10.80	0.40	0.81	
3.Tinned (whole Dried)	8.28	1.45		39.33	46.16	0.00		0.04		46.12		46.12	2.67	7.33	36.36	1.89	1.96	
4.Condensed Milk	4.39			0.04	4.43					4.42		4.42	0.26	0.70	2.28	0.06	0.06	
5.Milk Food (Yougurt etc)	1.75				1.75					1.75		1.75	0.10	0.28	0.17	0.01	0.00	
Total Milk															64.41	3.06	3.73	
K.Oil & Fats																		
1.Coconut	742.99		8.31		734.67			215.54		519.13		519.13	30.10	82.46	257.28	2.64	34.31	
2.Coconut Oil	32.56		1.05		31.51			9.45		22.06		22.06	1.28	3.50	30.91		3.50	
3.Gingelly Oil	0.65				0.65					0.65		0.65	0.04	0.10	0.91		0.10	
4.Desiccated Coconut	49.31		46.82		2.49			0.26		2.23		2.23	0.13	0.35				
5.Margarine	7.59			0.97	8.56					8.56		8.56	0.50	1.36	10.40		1.16	
6.Butter	0.44	0.01		0.49	0.92					0.92		0.92	0.05	0.15	1.09		0.12	
7.Cheese	0.02			0.28	0.30					0.30		0.30	0.02	0.05	0.17	0.01	0.01	
Total Oil & Fats															300.75	2.65	39.35	

Note:

1. Production of rice and highland crops is estimated for the cultivation year (Maha and Yala) and not for the calendar year.

2. Production of vegetables, fruits, jaggery and gingelly oil is estimated by multiplying the per capita consumption by the Total Mid Year Population

3. The item Rice given here upto "Food Gross" is accounted to be in terms of Paddy.

FOOD BALANCE SHEET - 1992 (Revised)

Unit: '000 MT (if not otherwise specified)
Mid Year Population : 17,405,000

Commodity	Production, Foreign Trade & Availability					Distribution					Per Capita Availability							
	Production	Change in stocks	Gross Exports	Gross Imports	Avail. Supply	Animal Feed	Seed	Manuf. acture	Waste	Food Gross	Extr. Rate	Food Net	Kgm. per yr.	Gms. per day	Calories per day	Prot.Gms per day	Fat Gms. Per day	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
A. Cereals																		
1. Rice	2339.70	-18.12		348.85	2706.67	1.21	33.52		162.40	2509.54	68	1706.49	98.05	268.62	929.42	17.73	1.21	
2. Kurakkan & Meneri	5.28			5.28		0.04			0.16	5.09	90	4.58	0.26	0.72	2.36	0.05	0.01	
3. Maize	28.80			28.80		0.05	0.22		0.86	27.67	90	24.90	1.43	3.92	14.19	0.37	0.16	
4. Sorghum	0.10			0.10		0.00	0.00		0.00	0.10	90	0.09	0.01	0.01	0.05	0.00	0.00	
5. Wheat Flour		-43.50		522.93	566.44	0.20			5.10	561.14		561.14	32.24	88.33	307.39	9.72	0.79	
Total Cereals															1253.41	27.87	2.17	
B. Roots & Tubers																		
1. Potatoes	78.56				78.56		6.89		7.86	63.82		63.82	3.67	10.05	9.74	0.16	0.01	
2. Manioc	302.21				302.21	0.00			90.66	211.54		211.54	12.15	33.30	52.28	0.23	0.07	
3. Sweet Potatoes	60.15				60.15				18.05	42.11		42.11	2.42	6.63	7.95	0.08	0.02	
Total Roots & Tubers															69.98	0.47	0.10	
C. Sugar																		
1. Refine(Sugar)	59.97	4.38		370.05	425.64					425.64		425.64	24.45	67.00	268.00		0.00	
2. Jaggery	1.02				1.02					1.02		1.02	0.06	0.16	0.54	0.00	0.00	
Total Sugar															268.54	0.00	0.00	
D. Pulses & Nuts																		
1. Green Gram	23.14				23.14		0.24		0.69	22.20		22.20	1.28	3.50	12.16	0.86	0.04	
2. Soya Bean	1.35			0.27	1.61	0.00	0.05		0.05	1.52		1.52	0.09	0.24	1.03	0.10	0.05	
3. Cowpea & Dhall	17.47	3.22		55.24	69.48		0.19		2.08	67.21		67.21	3.86	10.58	35.29	2.52	0.12	
4. Ground Nuts	3.24			0.01	3.24		0.42		0.10	2.73		2.73	0.16	0.43	2.44	0.11	0.17	
5. T. V. P.	0.99			-2.51	3.50					3.50		3.50	0.20	0.55	2.04	0.28	0.02	
Total Pulses & Nuts															52.97	3.87	0.40	
E. Vegetables																		
1. Vegetables (Excl. Onions)	621.31				621.31					621.31		621.31	35.70	97.80	43.96	2.06	0.30	
2. Onion	82.34	-2.04		35.51	119.89		7.72		35.97	76.20		76.20	4.38	12.00	7.08	0.22	0.01	
Total Vegetable															51.04	2.28	0.32	
F. Fruits																		
1. Fresh	129.62		1.98	2.89	130.53		1.79			128.74		128.74	7.40	20.26	18.70	0.37	0.36	
2. Dried (Dates, Grapes)			0.01	4.08	4.06					4.06		4.06	0.23	0.64	2.03	0.02	0.00	
Total Fruit															20.73	0.38	0.36	

1992 Conntd.

Commodity	Production, Foreign Trade & Availability					Distribution							Per Capita Availability				
	Production	Change in stocks	Gross Exports	Gross Imports	Avail: Supply	Animal Feed	Seed	Manuf acture	Waste	Food Gross	Extr: Rate	Food Net	Kgm: per yr:	Gms: per day	Calories Per day	Prot:Gms per day	Fat Gms: Per day
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
G.Meats																	
1.Beef	25.73			0.10	25.82					25.82		25.82	1.48	4.06	8.21	0.77	0.57
2.Pork	2.02				2.02					2.02		2.02	0.12	0.32	1.18	0.04	0.11
3.Mutton (Goat & Sheep)	1.95			0.30	2.26					2.26		2.26	0.13	0.35	0.42	0.08	0.01
4.Poultry	19.00			0.38	19.38					19.38		19.38	1.11	3.05	3.33	0.79	0.02
Total Meats															13.14	1.68	0.71
H.Eggs																	
	46.05			0.00	46.05	0.81			0.02	45.23		45.23	2.60	7.12	12.32	0.95	0.95
I.Fish																	
1.Fresh Fish	206.17			0.23	206.40	0.00		21.82	61.92	122.66		122.66	7.05	19.31	25.47	3.73	1.01
2.Dried & Salted Fish	14.40			44.38	58.78					58.78		58.78	3.38	9.25	22.67	4.69	0.37
3.Tinned Fish		0.22		11.91	11.69	0.00				11.69		11.69	0.67	1.84	3.17	0.39	0.18
Total Fish															51.30	8.81	1.56
J.Milk																	
1.Cow Milk	196.50				196.50			59.42		137.08		137.08	7.88	21.58	14.46	0.69	0.88
2.Buffalo Milk	82.55				82.55			0.00		82.55		82.55	4.74	12.99	15.20	0.56	1.14
3.Tinned (Whole Dried)	8.46	-1.32		29.25	39.03	0.00		0.04		39.00		39.00	2.24	6.14	30.45	1.58	1.64
4.Condensed Milk	3.97			0.25	4.21					4.21		4.21	0.24	0.66	2.15	0.05	0.06
5.Milk Food (Yougurt etc)	1.41			0.05	1.46					1.46		1.46	0.08	0.23	0.14	0.01	0.00
Total Milk															62.40	2.89	3.72
K.Oil & Fats																	
1.Coconut	781.09	8.43			772.66			216.10		556.56		556.56	31.98	87.61	273.34	2.80	24.71
2.Coconut Oil	30.22	2.43			27.79			9.07		18.73		18.73	1.08	2.95	26.03	0.00	2.94
3.Gingelly Oil	0.66				0.66					0.66		0.66	0.04	0.10	0.91	0.00	0.10
4.Desiccated Coconut	53.61	-1.99	53.25		2.35			0.36		1.99		1.99	0.11	0.31			
5.Margarine	8.00	0.31		1.93	9.62					9.62		9.62	0.55	1.51	11.59		1.29
6.Butter	0.43	0.03		0.58	0.99					0.99		0.99	0.06	0.16	1.14		0.13
7.Cheese	0.02			0.35	0.37					0.37		0.37	0.02	0.06	0.20	0.01	0.01
Total Oil & Fats															313.21	2.82	29.18

Note:

1. Production of rice and highland crops is estimated for the cultivation year (Maha and Yala) and not for the calendar year.
2. Production of vegetables, fruits, jaggery and gingelly oil is estimated by multiplying the per capita consumption by the Total Mid Year Population
3. The item Rice given here upto "Food Gross" is accounted to be in terms of Paddy.

Animal	140.49	14.35	7.08
Vegetable	2028.54	37.68	32.38
Total	2169.03	52.02	39.46

Unit: '000 MT (if not otherwise specified)
Mid Year Population: 17,619,000

FOOD BALANCE SHEET - 1993 (Revised)

Commodity	Production, Foreign Trade & Availability					Distribution						Per Capita Availability					
	Production 1	Change in stocks 2	Gross Exports 3	Gross Imports 4	Avail: Supply 5	Animal Feed 6	Seed 7	Manuf acture 8	Waste 9	Food Gross 10	Extr: Rate 11	Food Net 12	Kgm: per yr: 13	Gms: per day 14	Calories per day 15	Prot:Gms per day 16	Fat Gms Per day 17
A.Cereals																	
1.Rice	2510.17	117.34	1.07	304.23	2695.99	5.14	86.03		161.76	2443.06	68	1661.28	94.29	258.33	893.81	17.05	1.16
2.Kurakkan & Meneri	7.57				7.57		0.11		0.23	7.23	90	6.51	0.37	1.01	3.32	0.07	0.01
3.Maize	31.66			80.76	112.42	82.57	0.64		3.37	25.84	90	23.25	1.32	3.62	13.09	0.34	0.14
4.Sorghum	0.08				0.08		0.00		0.00	0.08	90	0.07	0.00	0.01	0.04	0.00	0.00
5.Wheat Flour		11.17		570.54	559.37	0.00			5.03	554.34		554.34	31.46	86.20	299.97	9.48	0.78
Total Cereals															1210.23	26.95	2.10
B.Roots & Tubers																	
1.Potatoes	78.18				78.18				7.82	53.71		53.71	3.05	8.35	8.10	0.13	0.01
2.Manioc	319.82				319.82	0.00			95.95	223.88		223.88	12.71	34.81	54.66	0.24	0.07
3.Sweet Potatoes	56.24				56.24				16.87	39.37		39.37	2.23	6.12	7.35	0.07	0.02
Total Roots & Tubers															70.10	0.45	0.10
C.Sugar																	
1.Refine(Sugar)	68.77	16.58		393.55	445.74					445.74		445.74	25.30	69.31	277.24		
2.Jaggery	1.03				1.03					1.03		1.03	0.06	0.16	0.54	0.00	0.00
Total Sugar															277.79	0.00	0.00
D.Pulses & Nuts																	
1.Green Gram	21.29				21.29				0.64	20.09		20.09	1.14	3.12	10.87	0.77	0.04
2.Soya Bean	0.83			2.99	3.82	0.00	0.08		0.11	3.62		3.62	0.21	0.56	2.43	0.24	0.11
3.Cowpea & Dhall	19.63	-3.87		45.63	69.13		0.50		2.07	66.55		66.55	3.78	10.35	34.52	2.47	0.12
4.Ground Nuts	5.45			1.17	6.62		1.30		0.20	5.12		5.12	0.29	0.80	4.51	0.20	0.32
5.T.V.P.	2.09			2.21	4.30					4.30		4.30	0.24	0.67	2.47	0.33	0.02
Total Pulses & Nuts															54.81	4.01	0.60
E.Vegetables																	
1.Vegetables (Excl. Onions)	628.95				628.95					628.95		628.95	35.70	97.80	43.96	2.06	0.30
2.Onion	72.86	0.00		34.23	107.09		17.57		32.13	57.39		57.39	3.26	8.92	5.26	0.16	0.01
Total Vegetable															49.23	2.22	0.31
F.Fruits																	
1.Fresh Fruits	131.51		2.53	4.46	133.44			1.58		131.86		131.86	7.48	20.50	18.93	0.37	0.36
2.Dried (Dates & Grapes)			0.01	4.59	4.59					4.59		4.59	0.26	0.71	2.26	0.02	0.00
Total Fruit															21.19	0.39	0.36

Unit: '000 MT (if not otherwise specified)
Mid Year Population: 17,865,000

FOOD BALANCE SHEET - 1994 (Revised)

Commodity	Production, Foreign Trade & Availability					Distribution					Per Capita Availability							
	Production	Change in stocks	Gross Exports	Gross Imports	Avail: Supply	Animal Feed	Seed	Manuf acture	Waste	Food Gross	Extr: Rate	Food Net	Kgm: per yr:	Gms: per day	Calories Per day	Prot:Gms per day	Fat Gms: Per day	
																		1
A. Cereals																		
1. Rice	2683.69	-39.69	51.91	85.92	2757.40	9.85	95.86	165.44	2486.24	68	1690.64	94.63	259.27	897.08	17.11	1.17		
2. Kurakkan & Meneri	7.07				7.07	0.10	0.10	0.21	6.76	90	6.08	0.34	0.93	3.06	0.07	0.01		
3. Maize	31.60	0.01		84.82	116.41	64.77	0.62	3.49	47.54	90	42.78	2.39	6.56	23.75	0.62	0.26		
4. Sorghum	0.10				0.10	0.00	0.00	0.00	0.09	90	0.08		0.00	0.00	0.00	0.00		
5. Wheat Flour		-22.49		655.09	677.57	0.00		6.10	671.47		671.47	37.59	102.98	358.35	11.33	0.93		
Total Cereals														1282.25	29.13	2.37		
B. Roots & Tubers																		
1. Potatoes	79.39			0.46	79.84	17.20		7.98	54.66		54.66	3.06	8.38	8.13	0.13	0.01		
2. Manioc	298.40				298.40	0.00		89.52	208.88		208.88	11.69	32.03	50.29	0.22	0.06		
3. Sweet Potatoes	62.10				62.10			18.63	43.47		43.47	2.43	6.67	8.00	0.08	0.02		
Total Roots & Tubers														66.42	0.44	0.09		
C. Sugar																		
1. Refine(Sugar)	72.53	15.96		491.75	548.33		14.12		534.20		534.20	29.90	81.92	327.70		0.00		
2. Jaggery	1.04			1.23	2.28				2.28		2.28	0.13	0.35	1.19		0.00		
Total Sugar														328.88	0.00	0.00		
D. Pulses & Nuts																		
1. Green Gram	19.03	0.00			19.03	0.50		0.57	17.95		17.95	1.00	2.75	9.58	0.67	0.03		
2. Soya Bean	0.98			14.78	15.76	0.00	0.08	0.47	15.20		15.20	0.85	2.33	10.07	1.01	0.45		
3. Cowpea & Dhall	18.68	1.65		79.43	96.46	0.47		2.89	93.09		93.09	5.21	14.28	47.63	3.40	0.16		
4. Ground Nuts	5.63			1.63	7.26	1.40		0.22	5.64		5.64	0.32	0.86	4.90	0.22	0.35		
5. T.V.P.	2.93			3.26	6.19				6.19		6.19	0.35	0.95	3.51	0.47	0.03		
Total Pulses & Nuts														75.70	5.78	1.02		
E. Vegetables																		
1. Vegetables (Excl. Onions)	637.73				637.73				637.73		637.73	35.70	97.80	43.96	2.06	0.30		
2. Onion	82.95	0.00		50.21	133.17	20.18		39.95	73.04		73.04	4.09	11.20	6.61	0.20	0.01		
Total Vegetable														50.57	2.27	0.31		
F. Fruits																		
1. Fresh	132.90		2.54	5.89	136.25	1.19			135.06		135.06	7.56	20.71	19.12	0.37	0.36		
2. Dried (Dates, Grapes)			0.02	6.52	6.50				6.50		6.50	0.36	1.00	3.16	0.02	0.00		
Total Fruit														22.28	0.40	0.37		

1994 Contd.

Commodity	Production, Foreign Trade & Availability					Distribution					Per Capita Availability							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Production in stocks	Change in stocks	Gross Exports	Gross Imports	Avail: Supply	Animal Feed	Seed	Manuf acture	Waste	Food Gross	Extr: Rate	Food Net	Kgm: per yr:	Gms: per day	Calories Per day	Prot:Gms per day	Fat Gms. Per day	
G. Meat																		
1. Beef	26.16			0.06	26.23	9.18				17.05		17.05	0.95	2.61	5.28	0.50	0.37	
2. Pork	2.00			0.01	2.01					2.01		2.01	0.11	0.31	1.14	0.04	0.11	
3. Mutton (Goat & Sheep)	2.57			0.50	3.07					3.07		3.07	0.17	0.47	0.56	0.10	0.02	
4. Poultry	35.47	-0.20		0.40	36.08					36.08		36.08	2.02	5.53	6.03	1.43	0.03	
Total Meat															13.01	2.07	0.52	
H. Eggs	48.95			0.00	48.95	0.86			0.02	48.07		48.07	2.69	7.37	12.75	0.98	0.98	
I. Fish																		
1. Fresh Fish	224.00			0.63	224.63	0.00		33.58	67.39	123.66		123.66	6.92	18.96	23.62	3.64	0.85	
2. Dried & Salted Fish	16.12			47.62	63.74					63.74		63.74	3.57	9.77	23.95	4.96	0.39	
3. Tinned Fish		0.81		13.15	12.34	0.00				12.34		12.34	0.69	1.89	3.25	0.40	0.19	
Total Fish															50.82	8.99	1.43	
J. Milk																		
1. Cow Milk	211.57				211.57			56.15		155.42		155.42	8.70	23.83	15.97	0.76	0.98	
2. Buffalo Milk	69.09				69.09			0.00		69.09		69.09	3.87	10.60	12.40	0.46	0.93	
3. Tinned (Whole Dried)	8.94	0.09		36.12	44.97	0.00		0.04		44.93		44.93	2.52	6.89	34.18	1.78	1.84	
4. Condensed Milk	4.21			0.45	4.65					4.65		4.65	0.26	0.71	2.32	0.06	0.06	
5. Milk Food (Yogurt etc)	1.76			0.21	1.97					1.97		1.97	0.11	0.30	0.18	0.01	0.00	
Total Milk															65.04	3.06	3.81	
K. Oil & Fats																		
1. Coconut	894.03		8.66		885.38			303.51		581.87		581.87	32.57	89.23	278.41	2.86	25.16	
2. Coconut Oil	60.00	-0.04	4.53		55.52			21.00		34.52		34.52	1.93	5.29	46.74		5.29	
3. Gingelly Oil	0.68				0.68					0.68		0.68	0.04	0.10	0.91		0.10	
4. Desiccated Coconut	55.89	0.92	53.29		1.68			0.61		1.07		1.07	0.06	0.16				
5. Margarine	8.50	-0.12		3.10	11.72					11.72		11.72	0.66	1.80	13.75		1.53	
6. Butter	0.39	0.00		0.99	1.38					1.38		1.38	0.08	0.21	1.54		0.17	
7. Cheese	0.01			0.65	0.66					0.66		0.66	0.04	0.10	0.35	0.02	0.03	
Total Oil & Fats															341.71	2.88	32.28	
Note:														Animal	143.53	15.14	6.94	
1. Production of rice and highland crops is estimated for the cultivation year (Maha and Yala) and not for the calendar year.														Vegetable	2165.91	40.87	36.25	
2. Production of vegetables, fruits, jaggery and gingelly oil is estimated by multiplying the per capita consumption by the Total Mid Year Population														Total	2309.44	56.01	43.19	
3. The item Rice given here upto "Food Gross" is accounted to be in terms of Paddy.																		

FOOD BALANCE SHEET - 1995

Unit: '000 MT (if not otherwise specified)
Mid Year Population: 18,112,000

Commodity	Production, Foreign Trade & Availability					Distribution					Per Capita Availability							
	Production	Change in stocks	Gross Exports	Gross Imports	Avail: Supply	Animal Feed	Seed	Manufacture	Waste	Food Gross	Extr: Rate	Food Net	Kgms: per yr:	Gms: per day	Calories Per day	Prot:Gms per day	Fat Gms: Per day	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
A.Cereals																		
1.Rice	2809.89	-49.12	68.02	13.89	2804.87	58.82	94.36		168.29	2483.40	68	1688.71	93.24	255.44	883.84	16.86	1.15	
2.Kurakkan & Meneri	5.14				5.14		0.08		0.15	4.90	90	4.41	0.24	0.67	2.19	0.05	0.01	
3.Maize	34.84	0.00		80.06	114.89	65.00	0.70		3.45	45.74	90	41.17	2.27	6.23	22.54	0.59	0.25	
4.Sorghum	0.22				0.22	0.00	0.00		0.01	0.21	90	0.19	0.01	0.03	0.10	0.00	0.00	
5.Wheat Flour		-0.14		782.47	782.61	20.27			7.04	755.30		755.30	41.70	114.25	397.59	12.57	1.03	
Total Cereals															1306.26	30.07	2.44	
B.Roots & Tubers																		
1.Potatoes	81.66	-0.48		1.00	83.14		17.72		8.31	57.11		57.11	3.15	8.64	8.38	0.14	0.01	
2.Manioc	288.77				288.77	0.00			86.63	202.14		202.14	11.16	30.58	48.01	0.21	0.06	
3.Sweet Potatoes	61.82				61.82				18.55	43.28		43.28	2.39	6.55	7.86	0.08	0.02	
Total Roots & Tubers															64.24	0.43	0.09	
C.Sugar																		
1.Refine(Sugar)	71.57	21.25		416.91	467.25		13.33			453.90		453.90	25.06	68.66	274.64		0.00	
2.Jaggery	1.06			0.00	1.06					1.06		1.06	0.06	0.16	0.54		0.00	
Total Sugar															275.18		0.00	
D.Pulses & Nuts																		
1.Green Gram	16.01	0.45			15.56		0.41		0.47	14.69		14.69	0.81	2.22	7.73	0.54	0.03	
2.Soya Bean	2.37	-13.68		2.67	18.72	0.00	0.19		0.56	17.96		17.96	0.99	2.72	11.74	1.17	0.53	
3.Cowpea & Dhall	16.14	7.70		66.78	75.22		0.41		2.26	72.55		72.55	4.01	10.97	36.61	2.62	0.12	
4.Ground Nuts	5.91			0.30	6.21		1.33		0.19	4.70		4.70	0.26	0.71	4.03	0.18	0.28	
5.T.V.P.	2.31			1.89	4.20					4.20		4.20	0.23	0.64	2.35	0.32	0.02	
Total Pulses & Nuts															62.46	4.83	0.98	
E.Vegetables																		
1.Vegetables (Excl. Onions)	646.54				646.54					646.54		646.54	35.70	97.80	43.96	2.06	0.30	
2.Onion	78.11	0.26		78.47	156.32		20.11		46.90	89.32		89.32	4.93	13.51	7.97	0.24	0.01	
Total Vegetable															51.93	2.31	0.32	
F.Fruits																		
1.Fresh	136.49		2.38	6.59	140.70		3.15			137.55		137.55	7.59	20.81	19.20	0.38	0.37	
2.Dried (Dates, Grapes)			0.01	5.61	5.60					5.60		5.60	0.31	0.85	2.69	0.02	0.00	
Total Fruit															21.89	0.40	0.37	

ANNEXURE 1**EXPLANATORY NOTES****1. Production**

Domestic production of each food item which is used in the compilation of the Food Balance Sheet is indicated in this column. Production of rice and all other highland crops with the exception of vegetables, fruits and soya beans are extracted from the estimates prepared by the Department of Census and Statistics. Paddy production is estimated seasonally by using a complete enumeration of paddy lands with the results of the crop cutting surveys conducted bi-annually. Production of highland crops are based on the estimates worked out using the district level area statistics collected by the Grama Niladhari and the average yields provided by the Agriculture Department. The estimated production of vegetables and fruits are computed using the per capita consumption data available from the Labour Force and Socio-Economic Survey of 1985/86 and the mid year population estimates obtained from the Registrar General's Department. Production of Sugar is obtained from the Local Sugar Companies. The production of fresh milk and eggs are extracted from the Livestock statistics compiled annually by the Agriculture Division of this Department using the district level estimates which are collected by the Grama Niladhari. Statistics on meat production is also estimated using these livestock figures with the dressed carcass weight of each kind of animal which were supplied by the Government Veterinary Surgeon. The production of other varieties of milk and milk foods are from the Milk Industries of Lanka Co. Ltd. while coconut and coconut products are from the Coconut Development Authority. Production of fish and fishery products are supplied by the Ministry of Fisheries.

2. Change In Stocks

This is the difference between the end of the year and the beginning of the year stocks. It should be noted that the stock positions considered in the Food Balance Sheet are those from the government institutions only while the change in stocks in the wholesale and retail trade in the private sector is assumed to be negligible. Data on stocks of wheat flour, rice, sugar other pulses (dhal) and tinned fish are received from the C.W.E. Data on stock of sugar is also received from Sugar Importers Assn. Stocks of milk powder are obtained from the Milk Industries of Lanka Co. Ltd. and that of desiccated coconut from the Coconut Development Authority.

3 & 4. Gross Exports and Imports

Gross Exports and Imports will account for the foreign trade of food items listed in the sheet for the particular year. The only food items i.e. coconuts and coconut products, which are shown under the exports column are supplied by the Coconut Development Authority.

The imports of rice, wheat flour and wheat are provided by the CWE Prima Ceylon Ltd. Imports of wheat in the form of grain was also taken into consideration and it was converted into flour by using the extraction rate of 74%. All the other entries appearing under this column are extracted from the Customs Returns.

5. Available Supply

This column shows the quantities of food supplies available before disposal to non-food and food uses. The available supply is computed by adding the net decrease in stocks and the net imports to the production figure of each food item.

6. Animal Feed

This column shows the quantities of food used as animal feed during the year. The quantities of Rice, Wheat and Maize which are used for animal feed are supplied by the Food Commissioner's Department and Ceylon Grain Elevators Ltd.

7. Seed

The values appearing in this column are estimates worked out using the seed rates and the area under cultivation of each commodity for the year. The seed rates of paddy and all the highland crops which is in annexure II are provided by the Department of Agriculture while statistics on cultivated area are estimated by the Agriculture Division.

8. Manufacture

This column shows the quantities of food used for the manufacture of non-food products like soap, paints etc. as well as the quantities used for food products where the appearance of the commodity will change while a change of nutrients will also take place during the transformation, eg. jam, beer etc. Data for fish, milk and coconut products were received from the Fisheries Ministry, Milk Industries of Lanka Co. Ltd. and Coconut Development Authority respectively.

9. Waste

Loss of food from the initial stage that is from the farm up to the stage where it reaches the consumer is accounted for under this column Waste in processing, distribution and storage is only taken into consideration here. Losses incurred inside the house mostly in the case of perishable foods and the quantities wasted after cooking which is commonly known as plate waste is not included in this column. Wasted for each commodity is estimated using the available supply and wastage factors which has been already worked out is in (annexure II).

10. Food (Gross)

This column shows the balance of the available supply after the quantities for animal feed, seed, manufacture and waste has been deducted.

11. Extraction Rates

The extraction rate mainly applies to cereals and are used to convert the grains to flour or transform to a more palatable form by milling. These rates are supplied by the Agriculture Ministry which is in annexure II.

12. Food (Net)

These figures represent the actual quantities of food directly available for human consumption.

13 & 14 Per Capita Supplies

This column presents the average per capita supply of food in Kgms/year and gms./day, quantities of food actually consumed may be a little less than these amounts.

15, 16 & 17. Per Capita Supply of Nutrients

The daily per capita availability of calories, protein grams and fat grams are derived using the nutrient conversion tables supplied by the Medical Research Institute which is given in annexure III.

ANEXTURE II

SEED RATES, WASTAGE FACTORS AND EXTRACTION RATES

Food Item	Seed Rate	Wastage Factor (as a % of the available supply)	Extraction Rate %
Wheat Flour		0.9	
Maize	17.5 lb./acre	3.0	90.0
Menneri	8.0 lb./acre	3.0	90.0
Kurakkan	9.0 lb./acre	3.0	90.0
Rice	2.0 Bushels/acre	6.0	68.0
Sorghum	15.0 lb./acre	3.0	90.0
Potatoes	19.0 cwt./acre	10.0	
Manioc		30.0	
Sweet Potatoes		30.0	
Green gram	20.0 lb./acre	3.0	
Soya bean	73.0 kg/acre	3.0	
Cowpea	20.0 lb./acre	3.0	
Ground nuts	120.0 lb./acre	3.0	
Dhall	20.0 lb./acre	3.0	
Onions	15.0 cwt./acre	30.0	
Eggs	1.75% of the av. Supply	0.05	
Fish (Fresh)		30.0	

Annexure III

CONVERSION FACTORS FOR NUTRITION VALUES

(Values per 100 gms)

Commodity	Calories	Proteins (gms)	Fat (gms)
Rice	346.00	6.60	0.45
Kurakkan & Meneri	328.00	7.30	1.30
Maize	362.00	9.50	4.00
Sorghum	349.00	10.40	1.90
Wheat Flour	348.00	11.00	0.90
Potatoes	97.00	1.60	0.10
Manioc	157.00	0.70	0.20
Sweet Potatoes	120.00	1.20	0.30
Sugar	400.00		
Jaggery	340.00	1.00	0.20
Green Gram	348.00	24.50	1.20
Soya Bean	432.00	43.20	19.50
Cowpea & Dhall	333.60	23.83	1.13
Ground Nuts	567.00	25.30	40.10
Coconut	312.00	3.20	28.20
Vegetables (Excl. Onions)	44.95	2.11	0.31
Onion	59.00	1.80	0.10
T.V.P.	370.00	50.00	3.00
Fruits	92.30	1.81	1.76
Dried (Dates, Grapes)	317.00	2.50	0.40
Beef	202.00	19.00	14.00
Pork	371.00	14.00	35.00
Mutton (Goat & Sheep)	118.00	21.40	3.60
Poultry	109.00	25.90	0.60
Eggs	173.00	13.30	13.30
Fresh Fish	125.94	19.36	4.66
Dried & Salted Fish	245.00	50.70	4.00
Tinned Fish	172.00	21.00	9.80
Cow Milk	67.00	3.20	4.10
Buffalo Milk	117.00	4.30	8.80
Tinned Milk(Whole Dried)	496.00	25.80	26.70
Condensed Milk	325.00	7.90	8.40
Milk Food (Yougurt etc)	60.00	3.50	0.10
Coconut Oil	883.00		99.90
Butter	729.00		81.00
Margarine	765.00		85.00
Cheese	348.00	24.10	25.10
Gingelly Oil	881.00	0.20	99.70

Source : "Tables of Food Composition - For Use in Sri Lanka" by Medical Research Institute - Colombo

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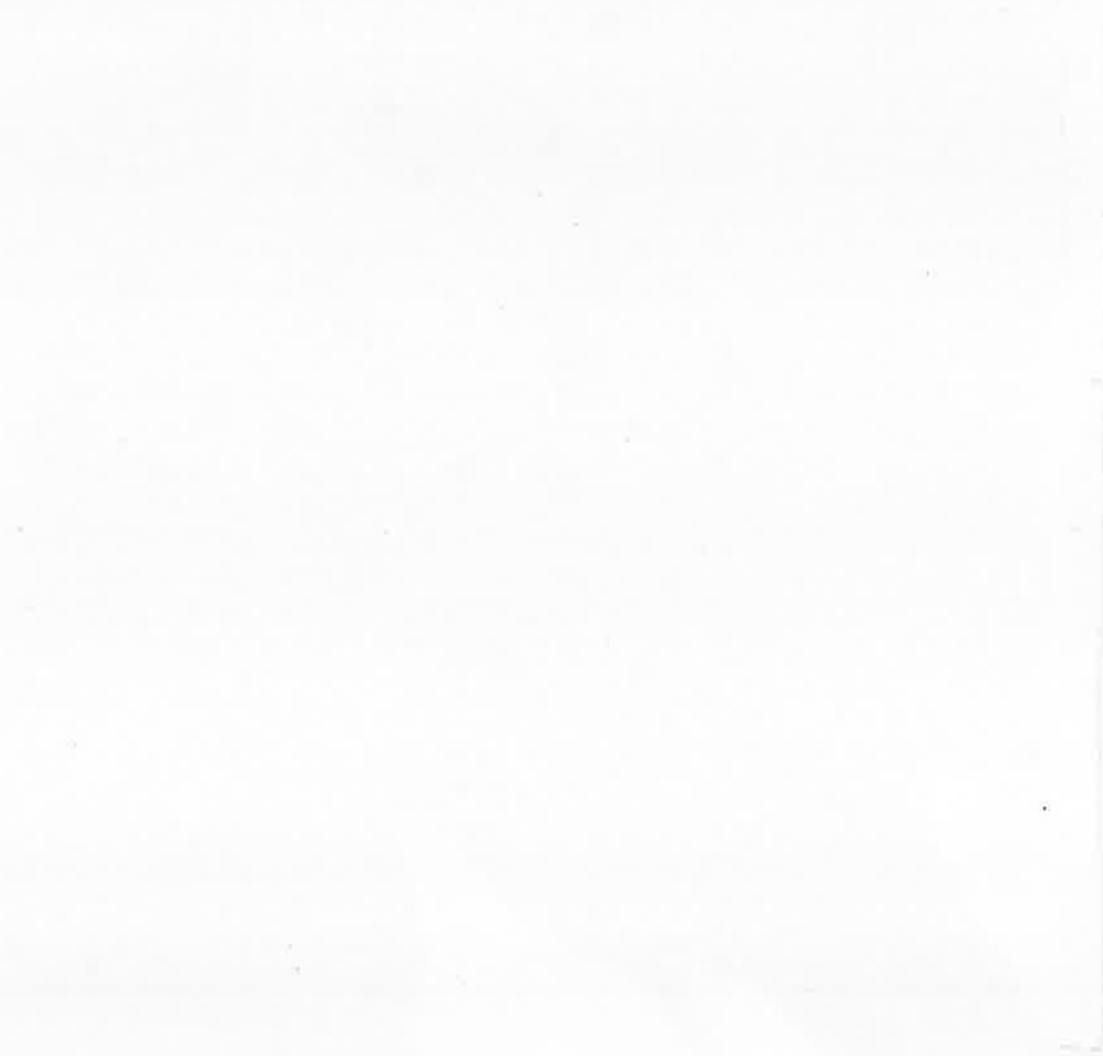
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