

FOOD ACCOUNTING
FOR
STATISTICALLY UNDERDEVELOPED COUNTRIES

LECTURE ILLUSTRATIONS

By

Thomas T. Poleman

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NEW YORK STATE COLLEGE OF AGRICULTURE AND LIFE SCIENCES
A STATUTORY COLLEGE OF THE STATE UNIVERSITY
CORNELL UNIVERSITY
ITHACA, NEW YORK 14853

DEPARTMENT OF
AGRICULTURAL ECONOMICS
WARREN HALL

10 February 1977

The materials presented here are intended to illustrate a lecture on food accounting techniques appropriate to less-developed countries. They are drawn from many sources, but as most are either the work of me or my students, they mirror the evolution of our thinking.

The food balance sheet is introduced first. Still the basic tool of the food economist, it remains in the LDCs depressingly susceptible to the pitfalls of "garbage in, garbage out." But there are ways to filter the garbage.

Comparatively giant strides have been made with the household budget survey. Once carried out primarily to provide weights for urban living cost indices, a few in recent years have had the whole spectrum of food behavior as their purview. One such was the 1969/70 Socio-Economic Survey of Ceylon, which yielded a wealth of information. More are urgently needed. With a salute to the former Director of Statistics of Ceylon, the excellent L. N. Perera, we reproduce a minified version of the questionnaire.

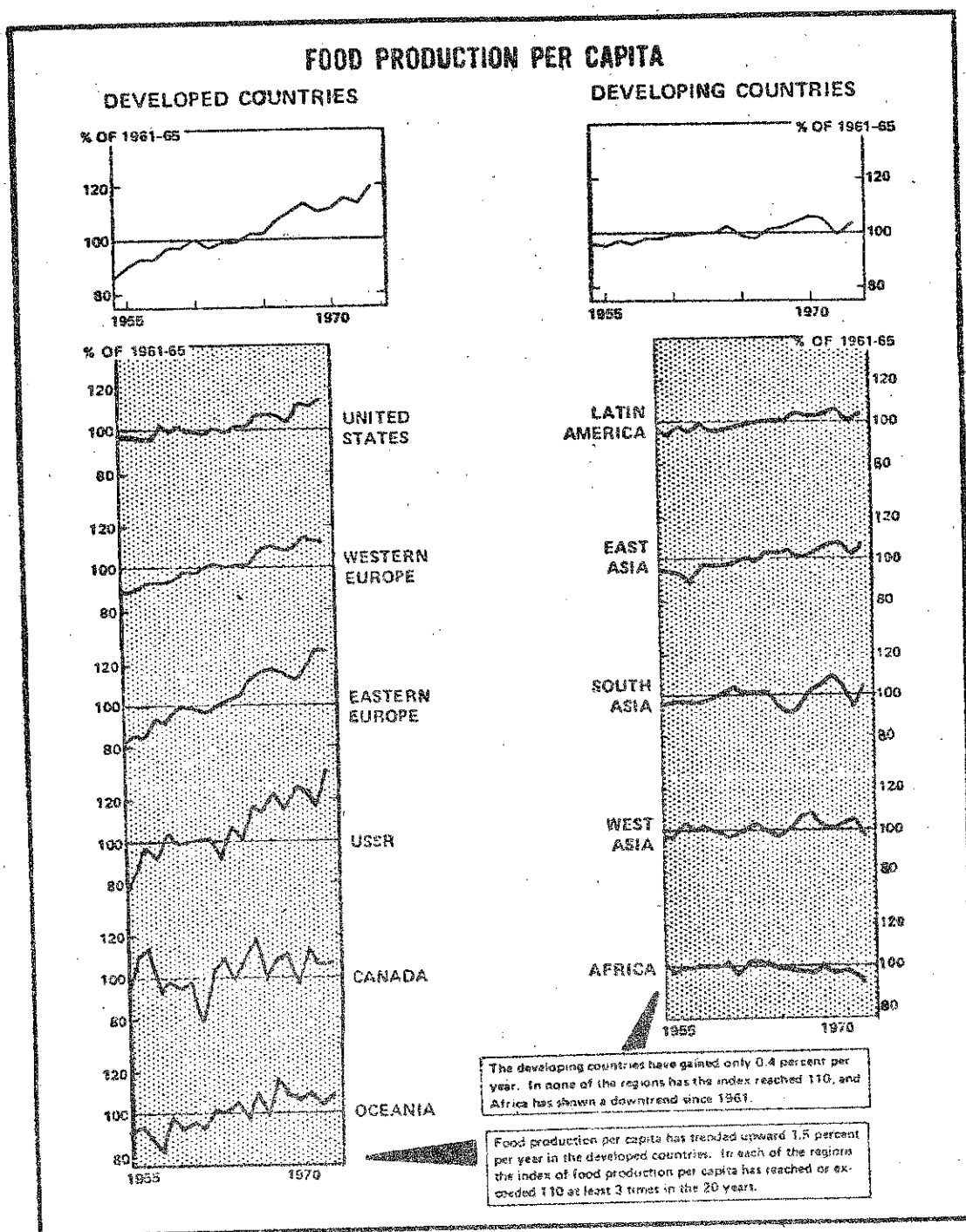
Despite its many attractions, our third tool, the road-check survey, remains little used in the LDCs. Politics, I suppose. The truck one wants to stop is increasingly likely to be carrying contraband.

Still there are grounds for optimism. The desirability of food planning is widely preached and gaining acceptance. An essential precondition is trustworthy quantification.



Thomas T. Poleman

CHART 1*



* Reproduced from USDA, ERS, The World Food Situation and Prospects to 1985 (December 1975), p. 15.

USDA series for Africa per capita food production (Chart 1) based on:

1. Maize in South Africa
2. Wheat in Morocco and Tunisia
3. Cotton in Egypt, Sudan, and Tunisia
4. Cocoa in Ghana, Nigeria, and Ivory Coast
5. Coffee in a number of countries.

TABLE 1. NUMBER OF PEOPLE ESTIMATED BY THE FAO TO HAVE HAD AN INSUFFICIENT PROTEIN-ENERGY SUPPLY IN 1970, BY REGION*

Region	Population (millions)	Percent- age below lower limit	Number below lower limit (millions)
Developed	1074	3	28
Developing*	1751	25	434
Latin America	283	13	36
Far East*	1020	30	301
Near East	171	18	30
Africa	273	25	67
World*	2825	16	462

* excluding Asian centrally planned economies.

* Data from UN, World Food Conference, "Assessment of the World Food Situation--Present and Future" (Rome, 5-16 November 1974), p. 66.

TABLE 2. FAO ESTIMATES OF AVERAGE ENERGY AND PROTEIN SUPPLY, 1961 AND 1969-71, BY REGION*

	Energy		Protein		Energy as Percent of Requirement	
	1961	1969-71 Average	1961	1969-71 Average	1961	1969-71 Average
	(kcal per caput)		(grms per caput)		(percent)	
Developed market economies	2950	3090	87.5	95.1	115	121
Western Europe	3020	3130	89.3	93.7	118	123
North America	3110	3320	92.3	105.2	118	126
Oceania	3210	3260	92.7	108.1	121	123
Other developed market economies	2420	2550	73.3	79.1	102	108
Eastern Europe and U.S.S.R.	2990	3260	85.8	99.3	116	127
TOTAL Developed Countries	2960	3150	87.0	96.4	116	123
Developing market economies	2130	2210	55.0	56.0	93	97
Africa	2120	2190	55.7	58.4	91	94
Far East	2050	2080	51.3	50.7	92	94
Latin America	2410	2530	63.7	65.0	100	105
Near East	2200	2500	62.3	69.3	89	102
Asian centrally planned economies	2020	2170	54.7	60.4	86	92
TOTAL Developing Countries	2100	2200	54.9	57.4	91	95
WORLD	2380	2480	65.2	69.0	100	104

* Reproduced from UN, World Food Conference, "Assessment of the World Food Situation--Present and Future" (Rome, 5-16 November 1974), p. 58.

The figures relate to protein and energy content of the food available at the retail level after allowance for the storage and marketing losses and waste.

NATIONAL FOOD ACCOUNTING

<u>Objectives</u>	<u>Data Sources</u>
To quantify present average situation -----	Food balance sheet
Breakdown by:	
Income -----	Household budget survey
Locality -----	Nutrition survey
Season of year -----	
Place in family -----	
To quantify likely future situation -----	Road check-cum-marketing survey

Food Balance Sheet

Prod. + trade + stocks = seed + feed + waste + nonfood + processing + human consump.

"Famine equation": $\frac{AHC}{365 \times \text{population}} - 15\% \leq \text{"requirements"}$

Limitations

1. homogeneity assumption
2. data availability

Conclusion: a useful tool, but handle with care. Compare with other evidence.

Household Budget Survey

Most useful data source (but remember purpose for which it was conducted)

Usual coverage:

1. 1 week - 1 month
2. small number of households; extrapolation problems
3. urban-rural breakdown
4. ethnic breakdown
5. varying income ranges; often difficult to relate to total population
6. expenditures, not quantities for foodstuffs

Nutrition Surveys

1. Only source for individual food intake
2. Very expensive, very inefficient in use of manpower
3. Tiny samples or misleading results, "Hunger in America"

Road Check-cum-Marketing Surveys

1. Long time coverage--usually 12 months
2. Stop all or % of vehicles at convenient spot
3. Develop common load denominators
4. Variations: markets as to focus

Cost Comparison

FBS - one man, one country	Road check - Uganda: \$10,000
HBS - Ceylon: 250 surveyors, 10,000 households	Nutrition Survey - INCAP: \$300,000; 34 men; 2,000 households

Population: on : FOOD BALANCE SHEET, (metric tons unless otherwise specified)

[illegible]

TABLE 4. Ceylon: Food balance sheet, average 1955-60*
(Average population — 9,303,000)

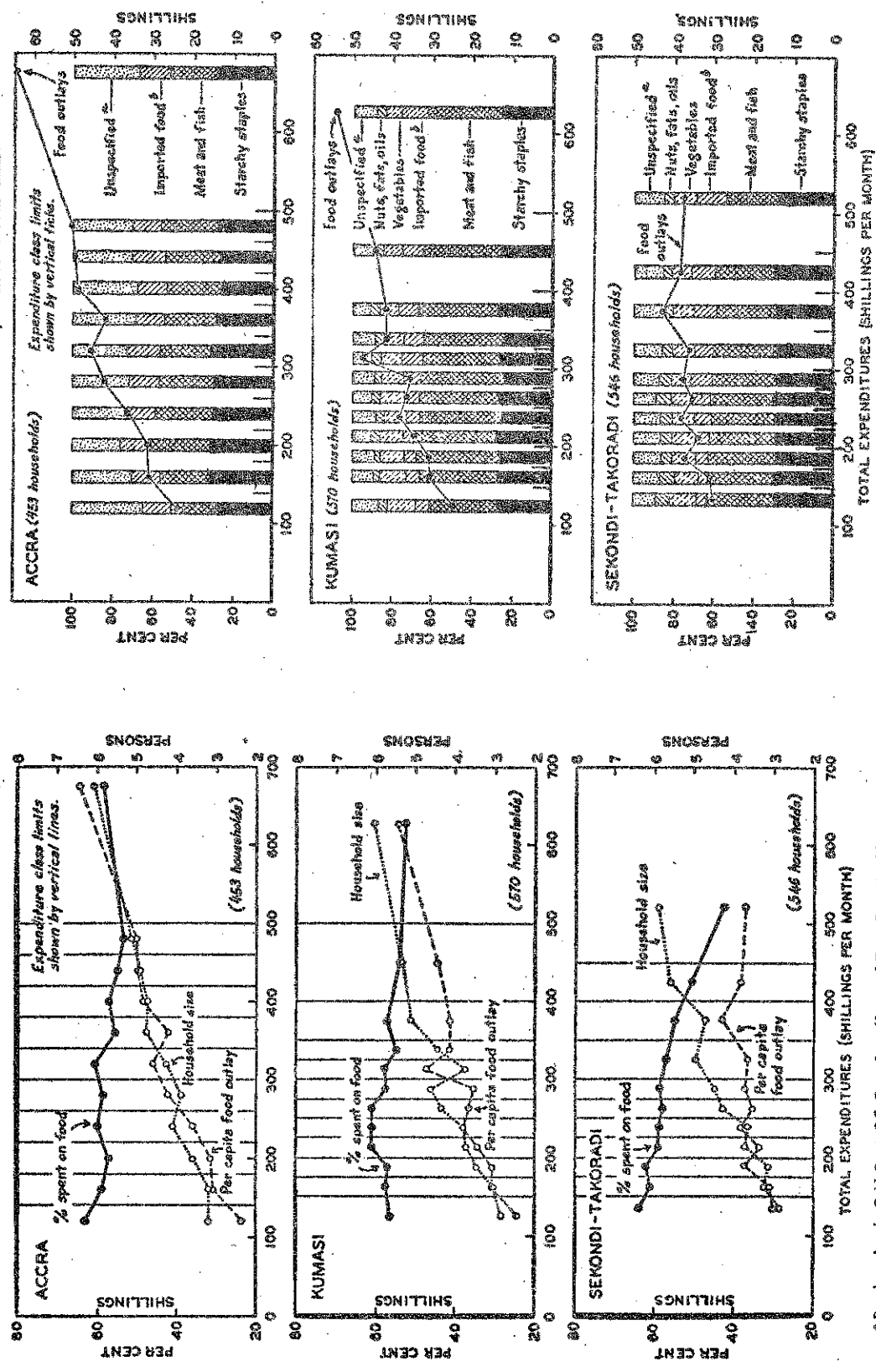
Commodity	Production	Gross exports	Gross imports	Available supply	Seed & feed†	Waste‡	Non-food manufacture	Gross food supply	Extraction rate	Net food supply	Per capita supply per day		
											Grams	Calories**	Protein** (grams)
				thousand metric tons				percent§		1000 metric tons			
Cereals													
Rice	731.9		712.5	1,444.4	59.4	30.3	—	1,254.7	68-72	943.3	277.7	1,000.0	18.90
Wheat flour	—		206.5	206.5	—	—	—	206.5	—	206.5	60.8	223.0	6.00
Maize	7.5		—	7.5	0.5	—	—	7.0	90	6.3	2.0	7.0	0.02
Kurraikan	17.6		—	17.6	0.5	—	—	17.1	90	15.4	5.0	17.0	0.35
Sorghum	0.8		—	0.8	0.025	—	—	0.8	90	0.8	0.3	3.0	0.03
Total												1,250.0	25.30
Roots and tubers													
Manioc	196.5		—	196.5	—	19.6	—	176.9		176.9	52.1	57.0	0.5
Sweet potatoes	38.9		—	38.9	—	3.8	—	35.0		35.0	10.4	10.0	0.1
Potatoes	0.5		36.0	36.5	—	3.6	—	33.0		33.0	9.6	7.0	—
Total												74.0	0.6
Sugar													
Refined	—		144.2	144.2	—	—	—	144.2		144.2	42.5	164.0	—
Not refined	—		20.8	20.8	—	—	—	20.8		20.8	6.0	21.0	—
Jaggery	—		4.2	4.2	—	—	—	4.2		4.2	1.4	5.0	—
Total												190.0	—
Pulses													
Dhall	—		9.2	9.2	—	—	—	9.2		9.2	2.7		
Green gram	3.6		9.4	13.0	0.22	—	—	12.8		12.8	3.8		
Black gram	—		4.2	4.2	—	—	—	4.2		4.2	1.4		
Chick peas	—		4.9	4.9	—	—	—	4.9		4.9	1.4	58.0	12.7
Lentils	—		16.6	16.6	—	—	—	16.6		16.6	5.0		
Other	2.5		5.8	8.3	0.13	—	—	8.1		8.1	2.5		
Total												58.0	12.7
Vegetables	475.0		—	475.0	—	25.0	—	450.0		450.0	125.2	28.0	1.7

Commodity	Production	Gross exports	Gross imports	Available supply	Seed & feed†	Waste‡	Non-food manufacture	Gross food supply	Extraction rate	Net food supply	Per capita supply per day		
											Grams	Calories**	Protein** (grams)
				thousand metric tons				percent§		1000 metric tons			
Fruits	55.0		—	55.0	—	5.0	—	50.0		50.0	14.8	9	0.06
Meat													
Beef	12.9		—	12.9	—	—	—	12.9		12.9	3.8	5.0	0.60
Buffalo	0.9		—	0.9	—	—	—	0.9		0.9	0.3	0.2	0.04
Mutton	1.3		—	1.3	—	—	—	1.3		1.3	0.3	0.4	0.04
Pork	1.1		—	1.1	—	—	—	1.1		1.1	0.3	0.9	0.04
Poultry	0.1		—	0.1	—	—	—	0.1		0.1	0.3	0.4	0.04
Canned meat	—		—	—	—	—	—	—		0.1	—	—	—
Total												7.9	.76
Eggs	7.5		1.4	8.8	—	—	—	8.8		8.8	2.5	4.0	0.3
Fish													
Fresh	42.8		—	42.8	—	10.7	17.3††	15.0		15.0	4.4	6.0	0.8
Dried	5.9		38.8	44.7	—	—	—	44.7		44.7	13.2	40.0	6.0
Tinned	—		4.0	4.0	—	—	—	4.0		4.0	1.4	4.0	0.3
Total												58.0	7.1
Milk													
Cow	57.1		—	57.1	—	—	—	57.1		57.1	14.0	9.0	.5
Buffalo	15.2		—	15.2	—	—	—	15.2		15.2	4.4	4.5	.2
Milk foods	—		1.6	1.6	—	—	—	1.6		1.6	.6		
Total												13.5	.7
Oils & fats													
Coconut	2,300.5	6.7	—	2,293.8	—	—	2,213.8††	80.0	—	80.0	24.0	42.0	.5
Coconut oil	1,100.0	750.0	—	325.0	—	—	—	325.0	—	325.0	37.0	320.0	—
Butter	—		0.1	—	—	—	—	0.1		0.1		0.2	
Total												362.2	.5
TOTAL												2,046.6	49.7

* Reproduced from Thambapillai Jogaratnam and T. T. Poleman, Food in the Economy of Ceylon (Cornell Intl. Agric. Dev. Bull. 11, Oct. 1969), pp. 9-10.

CHART 2. TYPICAL BUDGET SURVEY FINDINGS ON FOOD EXPENDITURE BEHAVIOR*

GHANA, URBAN HOUSEHOLD BUDGET SURVEY SAMPLES, 1953 AND 1955:
PERCENTAGE BREAKDOWN OF TOTAL DOMESTIC EXPENDITURES SPENT ON FOOD, PER CAPITA
MONTHLY FOOD OUTLAYS, AND HOUSEHOLD SIZE, BY EXPENDITURE CLASS^a



* Based on data in Gold Coast, Off. Govt. Stat. (Stat. and Econ. Papers), 1953 Accra Survey of Household Budgets (No. 2, December 1953), pp. 10-14; Kumasi Survey of Population and Household Budgets, 1955 (No. 5, March 1956), pp. 36-37; and Sekondi-Takoradi Survey of Population and Household Budgets, 1955 (No. 4, March 1956), pp. 32-33. Positioning of data for extreme expenditure classes reflects actual average expenditures; for other classes the midpoint. Figures do not include expenditures on drink.

^a A residual figure. In addition to such truly unspecified items as snacks purchased away from home, it includes expenditures for the less important starchy staples, meat and fish items, vegetables, and nuts, fats, and oils. (For Accra, of course, it includes all outlays for items in the latter two groupings.) It is best thought of as being prorated among the major commodity groups.

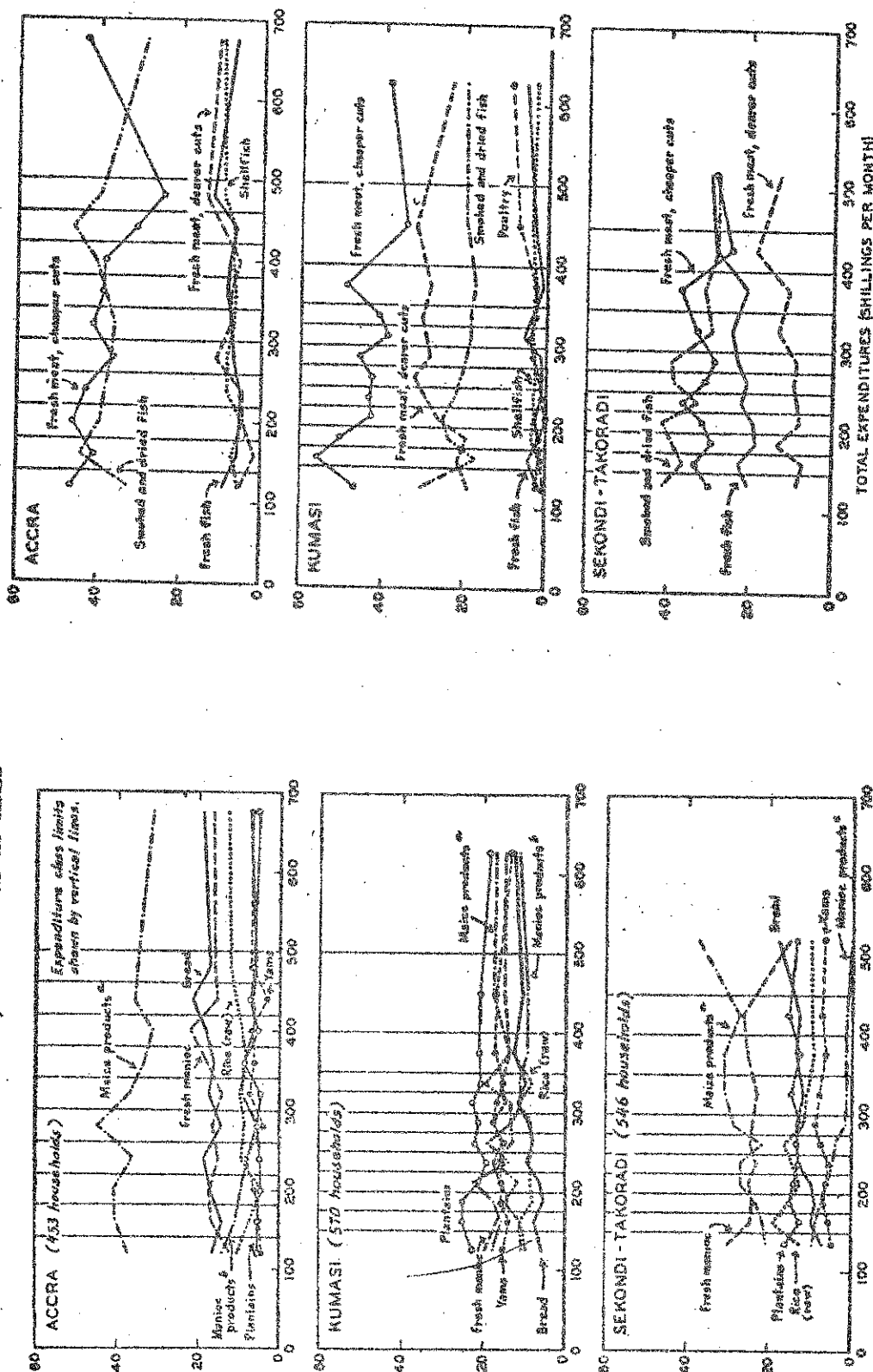
^b Packaged imported items. It includes such things as sugar and canned meat and milk, but not wheat flour and the like.

* Reproduced from T. T. Poleman, The Food Economies of Urban Middle Africa (Cornell Int'l. Agric. Reprint), pp. 145, 155.

CHART 3. TYPICAL BUDGET SURVEY FINDINGS ON FOOD EXPENDITURE BEHAVIOR*

GHANA, URBAN HOUSEHOLD BUDGET SURVEY SAMPLES, 1953 AND 1955: EXPENDITURES FOR SELECTED STAPLE STAPLES AS A PERCENTAGE OF TOTAL OUTLAYS FOR THESE ITEMS, BY EXPENDITURE CLASS *

GHANA, URBAN HOUSEHOLD BUDGET SURVEY SAMPLES, 1953 AND 1955: EXPENDITURES FOR SELECTED MEAT AND FISH PRODUCTS AS A PERCENTAGE OF TOTAL OUTLAYS FOR THESE ITEMS, BY EXPENDITURE CLASS*



* Based on data in Gold Coast Off. Govt. Stat. (Stat. and Econ. Papers), 1953 *Area Survey of Household Budgets* (No. 2, December 1953), p. 14; *Kumasi Survey of Population and Household Budgets*, 1955 (No. 3, March 1956), p. 42; *Sekondi-Takoradi Survey of Population and Household Budgets*, 1955 (No. 4, March 1956), p. 38. Positioning of data for extreme expenditure classes reflects actual average expenditures; for other classes the mid-point.

* See source note to Chart 5B.

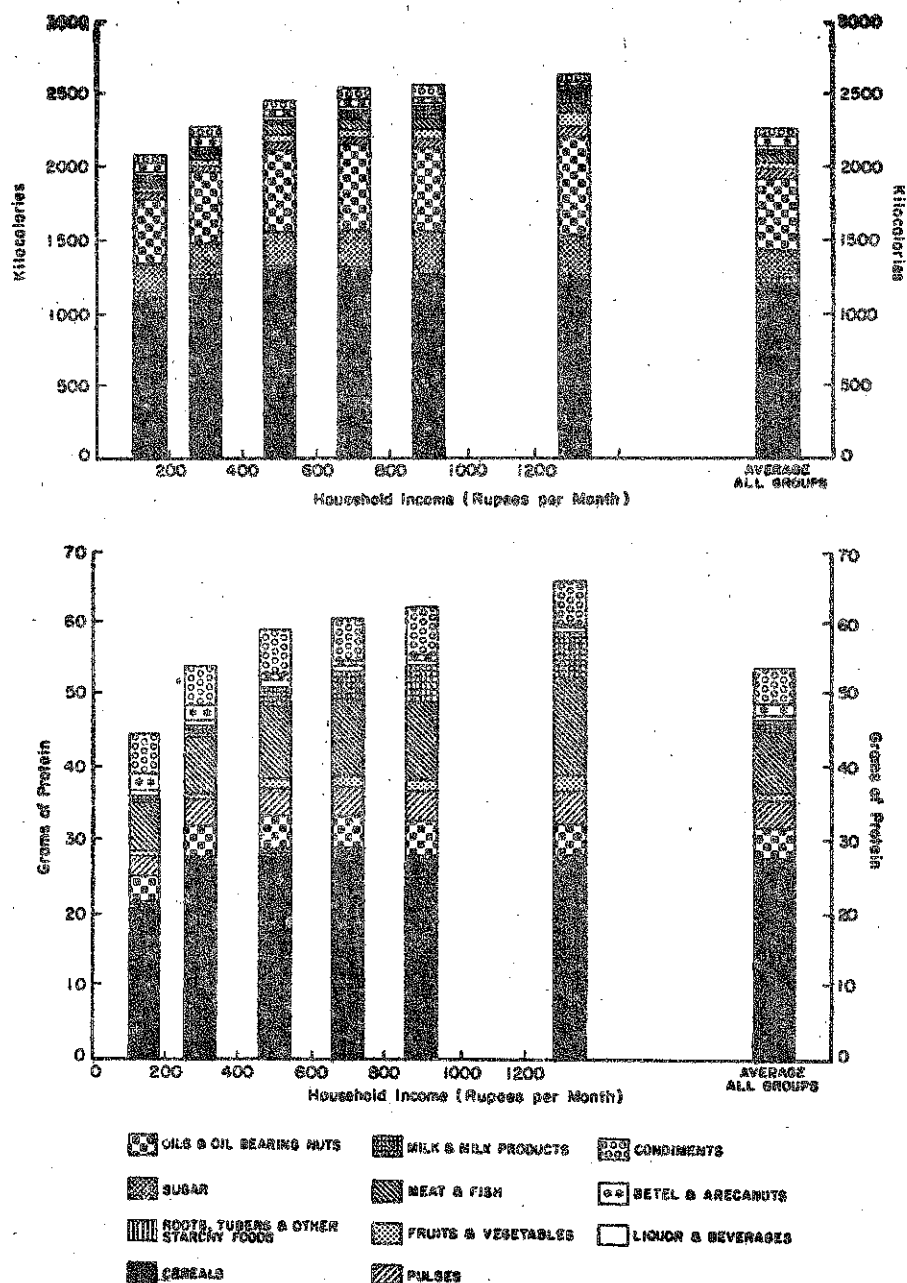
a Kenkey and dough.

b Gari and kokonte.

c Kokonte.

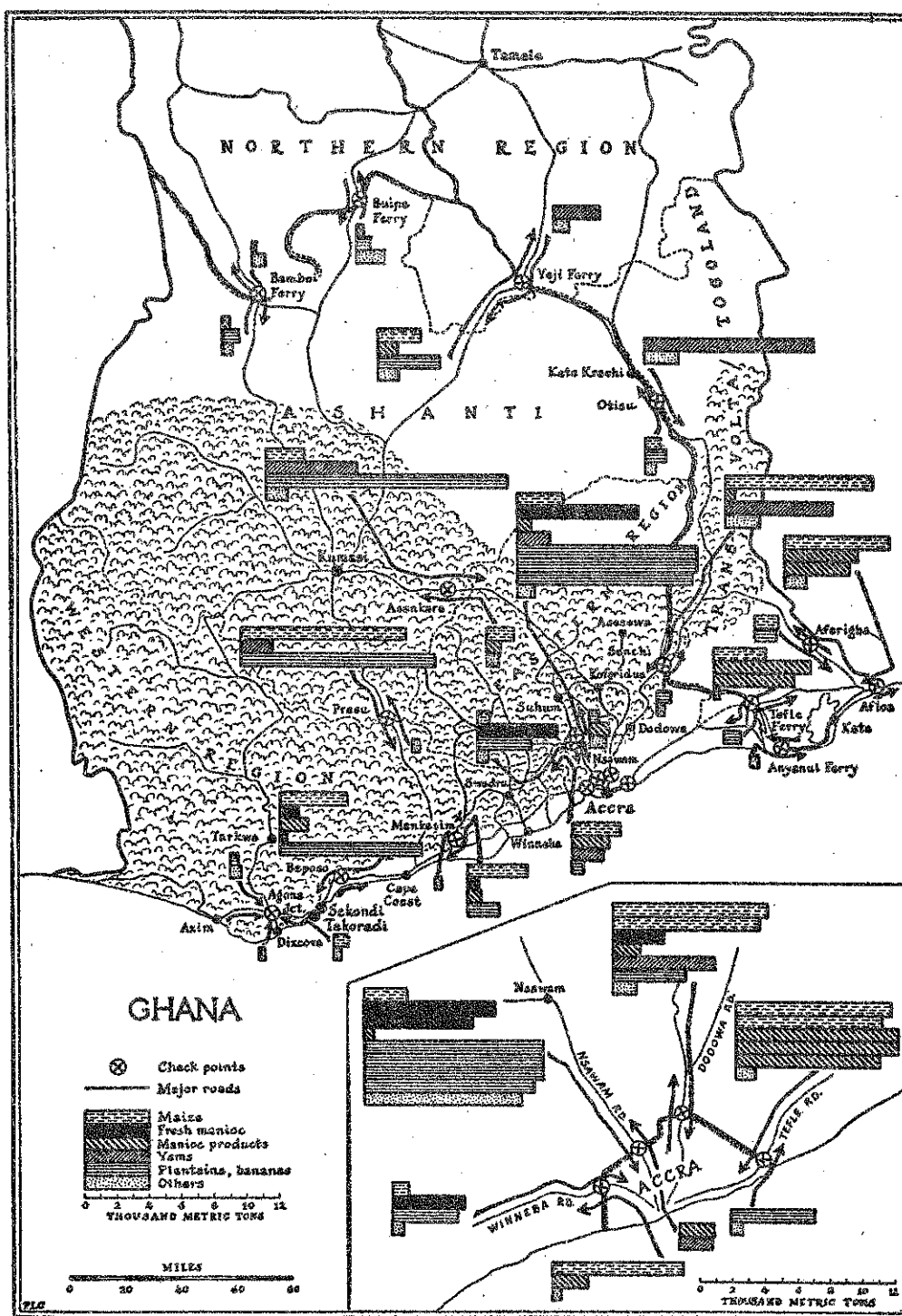
* Reproduced from T. T. Poleman, *The Food Economies of Urban Middle Africa* (Cornell Int'l. Agr. Reprint), pp. 156-57.

CHART 4. FINDINGS OF NEW TYPE BUDGET SURVEY:
APPARENT PER CAPITA DAILY ENERGY AND PROTEIN AVAILABILITIES
IN SRI LANKA, 1969-70*



* Reproduced from T. T. Poleman, "World Food: A Perspective," Science, 9 May 1975, p. 516.

Chart 5. GHANA, PRODUCE MOVEMENT CENSUS, 1957/58: ANNUAL FLOW OF STAPLE FOODS PASSING THE SEVERAL CHECK POINTS*

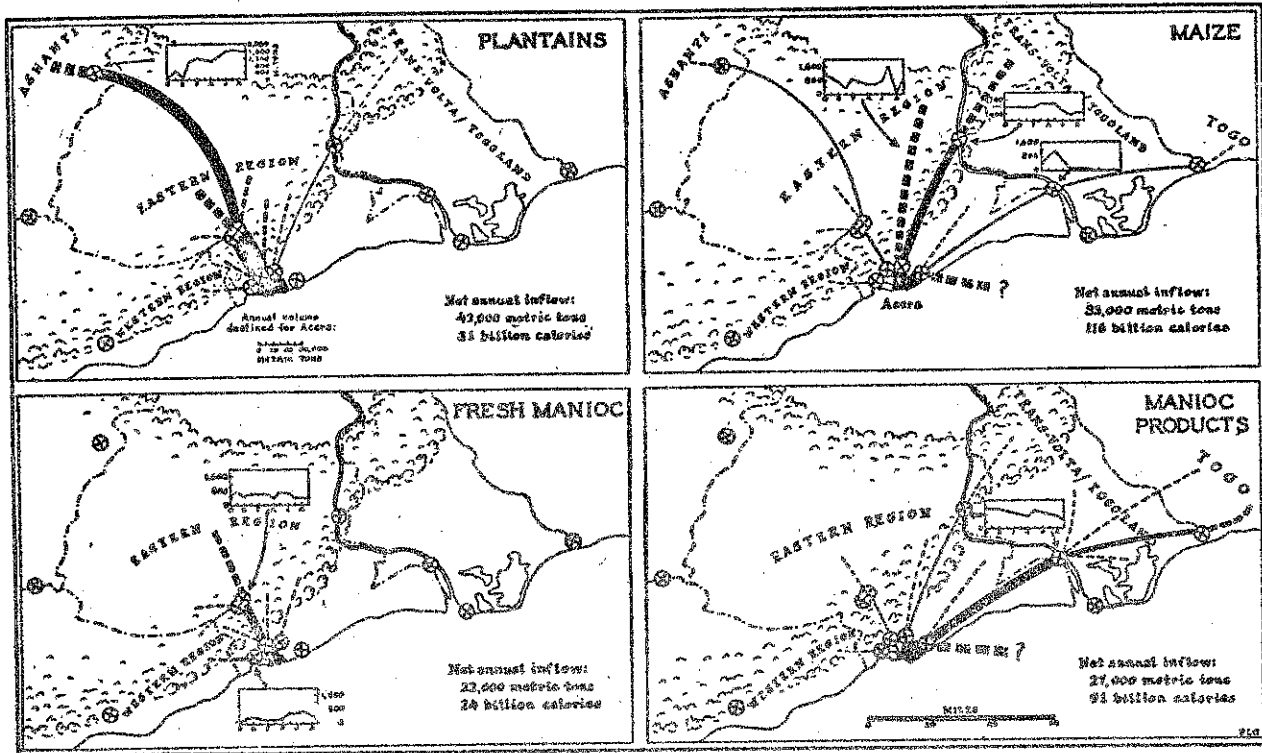


* Based on unpublished returns from the 1957/58 Produce Movement Census. Where data reported other than by weight, tonnages were estimated using the following conversion factors: maize—bag: 220 lbs.; rice—bag: 240 lbs.; millets—bag: 204 lbs.; sorghum—bag: 200 lbs.; manioc products—bag: 150 lbs.; manioc roots—bag: 200 lbs.; cocoyams—bag: 150 lbs.; and yams—tuber: 7 lbs. Factors from Ghana, Off. Govt. Stat., "Distribution Statistics—Produce Movements. . . Conversion Factors" (n.d., mimeo.).

Movements of less than 400 metric tons not shown.

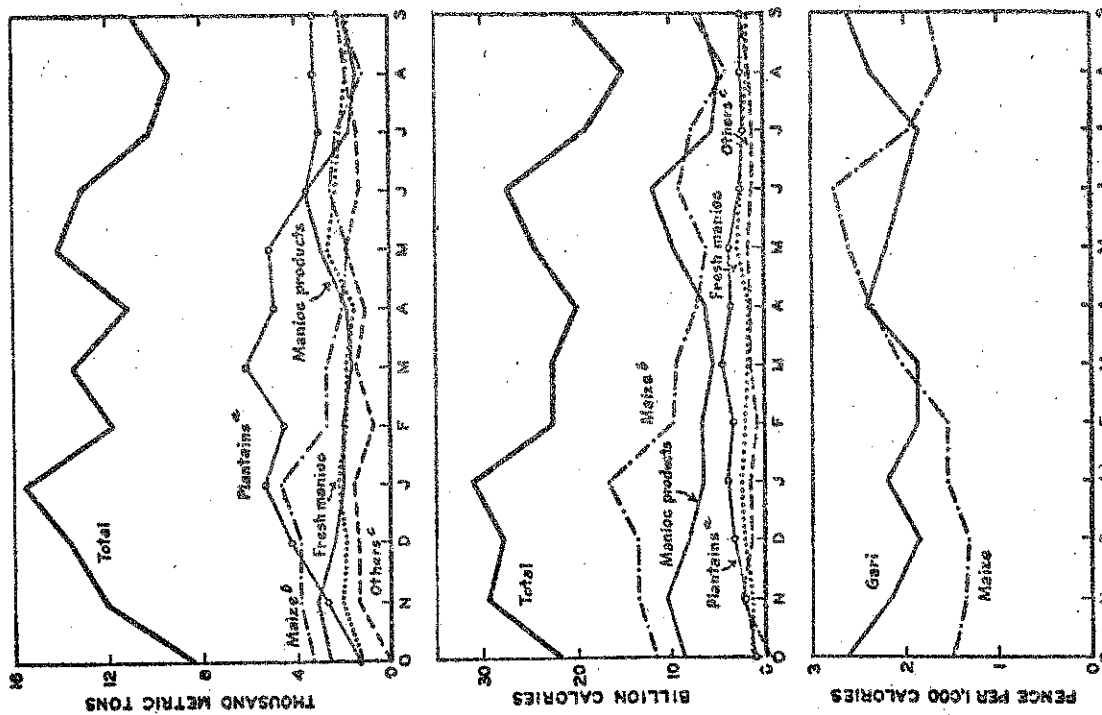
Reproduced from T. T. Poleman, The Food Economies of Urban Middle Africa (Cornell Int'l. Agric. Dev. Reprint), p. 165.

Chart 6. GHANA, PRODUCE MOVEMENT CENSUS, 1957/58: DIRECTION AND ANNUAL MAGNITUDE OF INFLOW OF PRINCIPAL STAPLE FOODS INTO ACCRA*



* Based on unpublished returns from the 1957/58 Produce Movement Census.

CHART 7. GHANA, PRODUCE MOVEMENT CENSUS, 1957/58: NET MONTHLY INFLOW OF STAPLE FOODS INTO ACCRA; AND AVERAGE MONTHLY WHOLESALE PRICE OF MAIZE AND GARIN IN THE ACCRA MARKET*



* Net inflows based on unpublished returns from the 1957/58 Produce Movement Census; price data from Ghana, Dept. Agr., *Monthly Report—Food Supply Position (various issues)*; caloric values calculated using conversion factors given in FAO, *Food Composition Tables—Minerals and Vitamins—For International Use* (Nurr. Studies 11, 1954), pp. 10-12, 13.

^a Includes bananas.

^b Includes sorghum.

^c Rice, millets, yams, cocoyams, "other cereals," and "other roots and tubers."

Reproduced from T. T. Poleson, *The Food Economies of Urban Middle Africa* (Cornell Int'l. Agric. Dev. Reprint), pp. 168, 171.

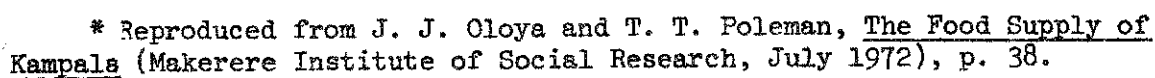
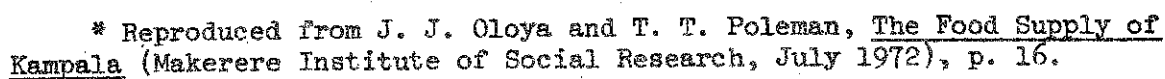
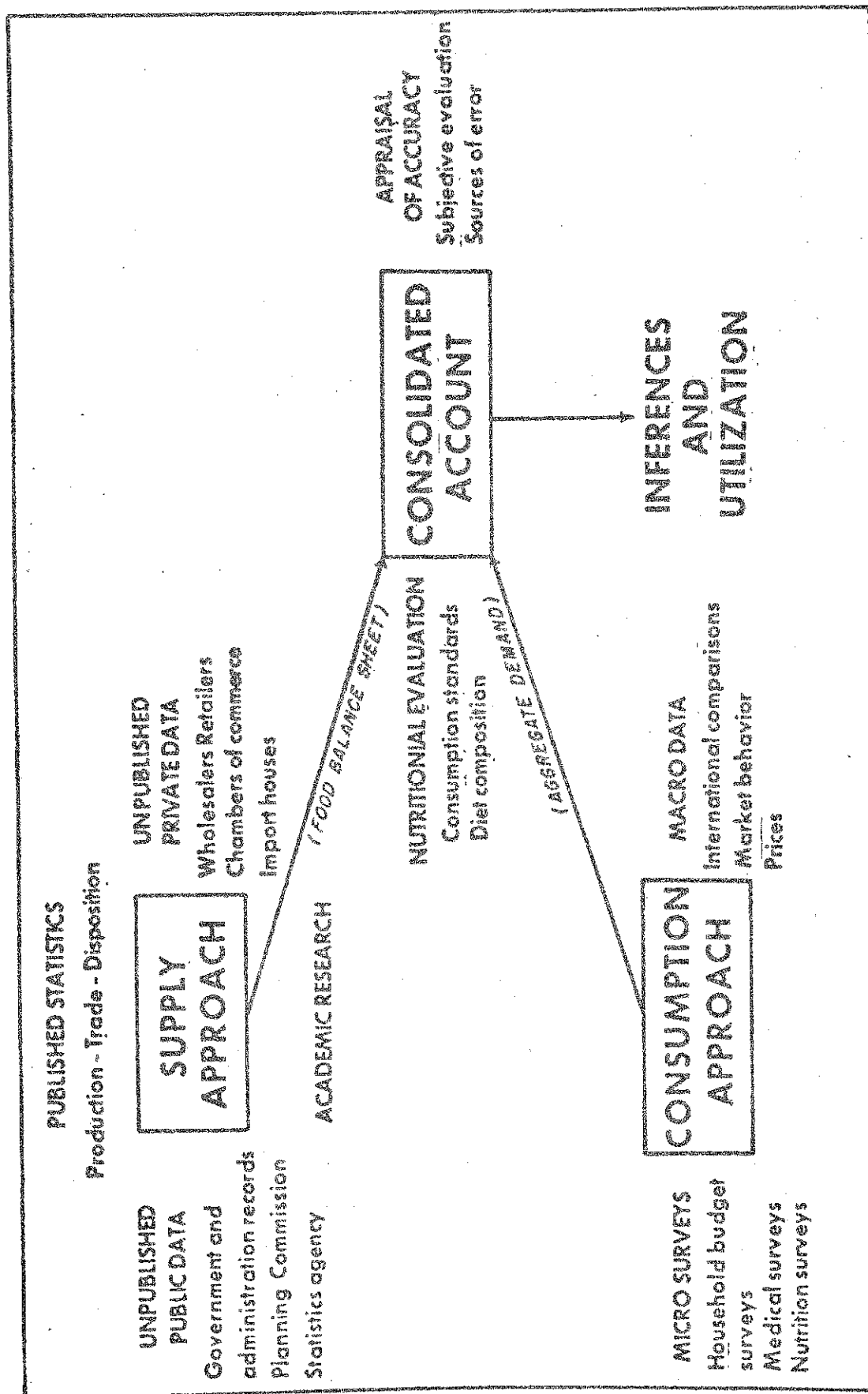


CHART 10. THE CROSS-CHECK APPROACH TO NATIONAL FOOD ACCOUNTING*



*Reproduced from M. J. Purvis, "Evaluation and Use of Underdeveloped Agricultural Statistics: The Food Economy of Malaysia" (Cornell Univ., unpublished Ph.D. Dissertation, 1966), p. 4.

Readings on
NATIONAL FOOD ACCOUNTING

1. T. T. Poleman, "Quantifying the Malthusian Dilemma," in Poleman, Beeghly, Matlon, and McGregor, The Economic Applications of Vital-Rate Monitoring (Cornell Int'l. Agric. Dev. Mimeo 38, Nov. 1972).
2. M. J. Schultheis, The Statistics of the World Food Problem: A Review Essay (Cornell Agric. Econ. Staff Paper No. 15, July 1970), pp. 20-28.
3. T. T. Poleman, "Survey on Nutritional Concomitants of Urbanization in Selected Countries of Sub-Saharan Africa" (FAO, 1965) (Reprinted as Cornell Agric. Econ. Staff Paper 73-15, July 1973).

THE FOOD BALANCE SHEET

4. H. C. Farnsworth, "Defects, Uses, and Abuses of National Consumption Data," Food Research Institute Studies, Vol. II, No. 3.
5. T. Jogaratnam and T. T. Poleman, Food in the Economy of Ceylon (Cornell Int'l. Agric. Dev. Bulletin 11, 1969), pp. 1-18.
6. E. B. Simmons and T. T. Poleman, The Food Balance Sheet as a Parameter of Tropical Food Economies: The Case of Mauritius (Cornell Int'l. Agric. Bulletin 29, June 1974), pp. 2-20, 61-73.
7. M. J. Purvis, "Evaluation and Use of Underdeveloped Agricultural Statistics: The Food Economy of Malaysia" (Cornell University, unpublished Ph.D. dissertation, 1966), pp. 62-143 (optional; for the enthusiast only).

THE CONSUMPTION SURVEY

8. T. T. Poleman, "The Food Economies of Urban Middle Africa: The Case of Ghana," Food Research Institute Studies, May 1961, pp. 135-143.
9. T. Jogaratnam and T. T. Poleman, op. cit., pp. 19-37.
10. E. B. Simmons and T. T. Poleman, op. cit., pp. 20-56.
11. M. J. Purvis, op. cit., pp. 144-209 (optional).
12. A. P. den Hartog, "Unequal Distribution of Food Within the Household," Nutrition Newsletter (FAO), Oct.-Dec. 1972, pp. 8-17.

13. FAO, Program of Food Consumption Surveys (Rome, 1964), (optional; on Mann 2-day reserve).

14. FAO, Bibliography of Food Consumption Surveys, 1964 and Supplements, 1965 and 1967 (mimeographed), (optional; on Mann 2-day reserve).

15. FAO, Review of Food Consumption Surveys 1970, Vol. 1A (Rome, 1970), (optional, on Mann 2-day reserve).

ROAD CHECK-CUM-MARKETING SURVEYS

16. T. T. Poleman, op. cit., pp. 161-172.

17. Gold Coast, Office of the Gov't. Stat., Agricultural Statistical Survey of South-East Akim Obuakwa, 1952-3 (Stat. and Econ. Paper No. 1, Sept. 1953).

OTHER TECHNIQUES

18. M. K. Bennett, "The Food Economy of the New England Indians, 1605-75," The Journal of Political Economy, October 1955.

19. D. S. Ferguson, The Nigerian Beef Industry (Conrell Int'l. Agric. Dev. Bulletin 9, 1967). (An optional skim).

CONVERSION FACTORS (These are on Mann 2-day reserve; look at them to become familiar with this type of source.)

20. FAO, Food Composition Tables - Minerals and Vitamins - for International Use (Rome, 1954).

21. USDA, Econ. Res. Ser., Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products (Stat. Bull. No. 362, June 1965).

22. FAO, Food Composition Tables: Annotated Bibliography (Nutrition Information Documents Series 1, Rome, 1969).

23. UN, Statistical Office, World Weights and Measures: Handbook for Statisticians (Stat. Papers Series M, No. 21, Rev. 1, New York, 1966).

24. The Economist, Guide to Weights and Measures (2nd Ed., London, 1962), pp. 53-65.

THE SOCIO-ECONOMIC SURVEY OF CEYLON, 1969-70

QUESTIONNAIRE

The questionnaire reproduced on the following pages was originally printed on 13 X 17-inch sheets. The questionnaire was designed and the survey supervised by Mr. L. N. Perera, then Deputy Director of Statistics, Government of Ceylon. The results of survey remain only partially published, but the data have been tested by various scholars and have yielded a wealth of information about consumer behavior. Over 8,000 households were surveyed in four rounds, each of three months duration. Between 150 and 250 staff were involved in the project.

SECTION	POLICE DISTRICT	STATION	REMARKS
SECTION 1	POLICE DISTRICT 1	STATION 1	REMARKS 1
SECTION 2	POLICE DISTRICT 2	STATION 2	REMARKS 2
SECTION 3	POLICE DISTRICT 3	STATION 3	REMARKS 3
SECTION 4	POLICE DISTRICT 4	STATION 4	REMARKS 4
SECTION 5	POLICE DISTRICT 5	STATION 5	REMARKS 5
SECTION 6	POLICE DISTRICT 6	STATION 6	REMARKS 6
SECTION 7	POLICE DISTRICT 7	STATION 7	REMARKS 7
SECTION 8	POLICE DISTRICT 8	STATION 8	REMARKS 8
SECTION 9	POLICE DISTRICT 9	STATION 9	REMARKS 9
SECTION 10	POLICE DISTRICT 10	STATION 10	REMARKS 10

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A. மயிலா பிழை
உடல் தோலுக்குப் பழக்கம்
Health & Beauty

Ed. of Peter J. Hoff
Health Services

சென்றதினால் நான் வலிப்பு உறுப்பி. சிக் மரணத்துக்கண்மூற்றிருந்தால்
 இவ்வகை நோய்கள் உண்டாகின்றன. உறுப்பி
 இவ்வகை நோய்கள் உண்டாகின்றன. உறுப்பி
 (from 30) These are the past two weeks

(4) ரெஜிஸ்டிரார்
காவலத்துறைத் துறைமுகம்

(உ) குழந்தை மீது சிகிச்சை எடுக்கப்பட்டதா? (ஆம்/இல்லை)
Whether treatment was taken (Yes/No) (1 for yes, 2 for no)

சுற்றுலா (பலம் குறைந்தது)
 ஆயுர் வேதம் (அத சாங்க)
 ஆர்த்திக் (Government) --- (Enter)

பெரும்பாலும் (பெரும்பாலும்) மருத்துவம் (அரசாங்க)
 Perumbarudum (Perumbarudum) - (Perumbarudum)

கிணர்மா உயரது கழிநீரும் ஐயுமே (2)
தோவாணி யாகினி நோயாவியாகிலோ (1) அல்லது இலையின்
பெறப்படுங் கோள்களை (2) பெறப்பட்ட கோள்கள் இருந்திருக்க
State whether treatment was sought as an indoor patient (1)

for married women

(4) பதில் உபவாதி
கயங்கோன் பிரிசனரேட்டிற்குள்ளே எண்ணிக்கை

(6) கருத்துரைக்கப்பட்ட உரை இரட்டிப்பை
கண்டிப்பாக உறுதிப்படுத்தப்பட்டு திருத்தம் படுகிறது
Date of last revision

$$A_1 \otimes A_2 \otimes \cdots \otimes A_n \otimes A_{n+1} \otimes \cdots \otimes A_{n+m} \otimes A_{n+m+1} \otimes \cdots \otimes A_{n+m+l}$$

Not of members of the household who are members of:

(அ) ஐயு வசை
வினாக்கள்
நிர்ணயம்

(d) கல்வித் துறை மற்றும் கல்வித் துறைகளில், கல்வித் துறை, கல்வித் துறைகளில் Educational and cultural activities

(c) கலாநிதி மத்திய மன்றம் (மாமன் மானி)
ஏனைய சங்கங்கள் (குறிப்பிடுக)
Other societies (Specify)

தரஸ் சென்ற நிறுவனங்கள் எவ்வளவு தரஸ் சென்றன ?
How many members of the household, if any, saw a film or a theatrical or cultural show at least once during the preceding month ?

கேள்விகள்: 1. காவல் துறைக்கு உட்பட்ட
பொலீஸ் ஸ்டேஷன்களில் பணியாற்றும்
பொலீஸ் ஸ்டேஷன்களில் பணியாற்றும்
பொலீஸ் ஸ்டேஷன்களில் பணியாற்றும்

2. **தமிழகப் பூமி**
வாரத் துறை
Weekly publication

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4. تأثيرات التغيرات في أسعار الصرف على الدخل النقدي

[illegible]

இருவரும் உயர்ந்த பணியை விரைவில் கிடைக்க வேண்டும் என்று வாழ்த்துகிறேன்.

1. பரிசீலனை செய்து, அவைகள் சம்பந்தப்பட்ட பிரச்சனைகளைத் தீர்ப்பு வழங்கி, அதற்கான நடவடிக்கைகளை மேற்கொள்ளுமா? அல்லது இல்லையென்றால், அதற்கான காரணம் என்ன?

Table 1 Goods and services received free by employees or received free from other sources		Table 2 Goods produced by household members consumed by the household	
(a) Particulars	(b) Value	(c) Quantity	(d) Value
(1) Food	...	...	...
(2) Clothing	...	...	...
(3) Housing	...	...	...
(4) Other	...	...	...
(5) Vegetables and fruits	...	...	...
(6) Other	...	...	...
(7) Other	...	...	...
(8) Other	...	...	...
(9) Other	...	...	...
(10) Other	...	...	...
(11) Other	...	...	...
(12) Other	...	...	...
(13) Other	...	...	...
(14) Other	...	...	...
(15) Other	...	...	...
(16) Other	...	...	...
(17) Other	...	...	...
(18) Other	...	...	...
(19) Other	...	...	...
(20) Other	...	...	...
(21) Other	...	...	...
(22) Other	...	...	...
(23) Other	...	...	...
(24) Other	...	...	...
(25) Other	...	...	...
(26) Other	...	...	...
(27) Other	...	...	...
(28) Other	...	...	...
(29) Other	...	...	...
(30) Other	...	...	...
(31) Other	...	...	...
(32) Other	...	...	...
(33) Other	...	...	...
(34) Other	...	...	...
(35) Other	...	...	...
(36) Other	...	...	...
(37) Other	...	...	...
(38) Other	...	...	...
(39) Other	...	...	...
(40) Other	...	...	...
(41) Other	...	...	...
(42) Other	...	...	...
(43) Other	...	...	...
(44) Other	...	...	...
(45) Other	...	...	...
(46) Other	...	...	...
(47) Other	...	...	...
(48) Other	...	...	...
(49) Other	...	...	...
(50) Other	...	...	...
(51) Other	...	...	...
(52) Other	...	...	...
(53) Other	...	...	...
(54) Other	...	...	...
(55) Other	...	...	...
(56) Other	...	...	...
(57) Other	...	...	...
(58) Other	...	...	...
(59) Other	...	...	...
(60) Other	...	...	...
(61) Other	...	...	...
(62) Other	...	...	...
(63) Other	...	...	...
(64) Other	...	...	...
(65) Other	...	...	...
(66) Other	...	...	...
(67) Other	...	...	...
(68) Other	...	...	...
(69) Other	...	...	...

உள்ளுள்ள பணம் 4 கம் 770

சென்னை, 15.12.2019

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

[illegible]

[illegible]

Code	Unit	1st Day		2nd Day		3rd Day		4th Day		5th Day		6th Day		7th Day		8th Day		9th Day		10th Day		11th Day		12th Day		13th Day		14th Day		15th Day		16th Day		17th Day		18th Day		19th Day		20th Day		21st Day		22nd Day		23rd Day		24th Day		25th Day		26th Day		27th Day		28th Day		29th Day		30th Day		31st Day		32nd Day		33rd Day		34th Day		35th Day		36th Day		37th Day		38th Day		39th Day		40th Day		41st Day		42nd Day		43rd Day		44th Day		45th Day		46th Day		47th Day		48th Day		49th Day		50th Day		51st Day		52nd Day		53rd Day		54th Day		55th Day		56th Day		57th Day		58th Day		59th Day		60th Day		61st Day		62nd Day		63rd Day		64th Day		65th Day		66th Day		67th Day		68th Day		69th Day		70th Day		71st Day		72nd Day		73rd Day		74th Day		75th Day		76th Day		77th Day		78th Day		79th Day		80th Day		81st Day		82nd Day		83rd Day		84th Day		85th Day		86th Day		87th Day		88th Day		89th Day		90th Day		91st Day		92nd Day		93rd Day		94th Day		95th Day		96th Day		97th Day		98th Day		99th Day		100th Day		101st Day		102nd Day		103rd Day		104th Day		105th Day		106th Day		107th Day		108th Day		109th Day		110th Day		111th Day		112th Day		113th Day		114th Day		115th Day		116th Day		117th Day		118th Day		119th Day		120th Day		121st Day		122nd Day		123rd Day		124th Day		125th Day		126th Day		127th Day		128th Day		129th Day		130th Day		131st Day		132nd Day		133rd Day		134th Day		135th Day		136th Day		137th Day		138th Day		139th Day		140th Day		141st Day		142nd Day		143rd Day		144th Day		145th Day		146th Day		147th Day		148th Day		149th Day		150th Day		151st Day		152nd Day		153rd Day		154th Day		155th Day		156th Day		157th Day		158th Day		159th Day		160th Day		161st Day		162nd Day		163rd Day		164th Day		165th Day		166th Day		167th Day		168th Day		169th Day		170th Day		171st Day		172nd Day		173rd Day		174th Day		175th Day		176th Day		177th Day		178th Day		179th Day		180th Day		181st Day		182nd Day		183rd Day		184th Day		185th Day		186th Day		187th Day		188th Day		189th Day		190th Day		191st Day		192nd Day		193rd Day		194th Day		195th Day		196th Day		197th Day		198th Day		199th Day		200th Day		201st Day		202nd Day		203rd Day		204th Day		205th Day		206th Day		207th Day		208th Day		209th Day		210th Day		211st Day		212nd Day		213rd Day		214th Day		215th Day		216th Day		217th Day		218th Day		219th Day		220th Day		221st Day		222nd Day		223rd Day		224th Day		225th Day		226th Day		227th Day		228th Day		229th Day		230th Day		231st Day		232nd Day		233rd Day		234th Day		235th Day		236th Day		237th Day		238th Day		239th Day		240th Day		241st Day		242nd Day		243rd Day		244th Day		245th Day		246th Day		247th Day		248th Day		249th Day		250th Day		251st Day		252nd Day		253rd Day		254th Day		255th Day		256th Day		257th Day		258th Day		259th Day		260th Day		261st Day		262nd Day		263rd Day		264th Day		265th Day		266th Day		267th Day		268th Day		269th Day		270th Day		271st Day		272nd Day		273rd Day		274th Day		275th Day		276th Day		277th Day		278th Day		279th Day		280th Day		281st Day		282nd Day		283rd Day		284th Day		285th Day		286th Day		287th Day		288th Day		289th Day		290th Day		291st Day		292nd Day		293rd Day		294th Day		295th Day		296th Day		297th Day		298th Day		299th Day		300th Day		301st Day		302nd Day		303rd Day		304th Day		305th Day		306th Day		307th Day		308th Day		309th Day		310th Day		311st Day		312nd Day		313rd Day		314th Day		315th Day		316th Day		317th Day		318th Day		319th Day		320th Day		321st Day		322nd Day		323rd Day		324th Day		325th Day		326th Day		327th Day		328th Day		329th Day		330th Day		331st Day		332nd Day		333rd Day		334th Day		335th Day		336th Day		337th Day		338th Day		339th Day		340th Day		341st Day		342nd Day		343rd Day		344th Day		345th Day		346th Day		347th Day		348th Day		349th Day		350th Day		351st Day		352nd Day		353rd Day		354th Day		355th Day		356th Day		357th Day		358th Day		359th Day		360th Day		361st Day		362nd Day		363rd Day		364th Day		365th Day		366th Day		367th Day		368th Day		369th Day		370th Day		371st Day		372nd Day		373rd Day		374th Day		375th Day		376th Day		377th Day		378th Day		379th Day		380th Day		381st Day		382nd Day		383rd Day		384th Day		385th Day		386th Day		387th Day		388th Day		389th Day		390th Day		391st Day		392nd Day		393rd Day		394th Day		395th Day		396th Day		397th Day		398th Day		399th Day		400th Day		401st Day		402nd Day		403rd Day		404th Day		405th Day		406th Day		407th Day		408th Day		409th Day		410th Day		411st Day		412nd Day		413rd Day		414th Day		415th Day		416th Day		417th Day		418th Day		419th Day		420th Day		421st Day		422nd Day		423rd Day		424th Day		425th Day		426th Day		427th Day		428th Day		429th Day		430th Day		431st Day		432nd Day		433rd Day		434th Day		435th Day		436th Day		437th Day		438th Day		439th Day		440th Day		441st Day		442nd Day		443rd Day		444th Day		445th Day		446th Day		447th Day		448th Day		449th Day		450th Day		451st Day		452nd Day		453rd Day		454th Day		455th Day		456th Day		457th Day		458th Day		459th Day		460th Day		461st Day		462nd Day		463rd Day		464th Day		465th Day		466th Day		467th Day		468th Day		469th Day		470th Day		471st Day		472nd Day		473rd Day		474th Day		475th Day		476th Day		477th Day		478th Day		479th Day		480th Day		481st Day		482nd Day		483rd Day		484th Day		485th Day		486th Day		487th Day		488th Day		489th Day		490th Day		491st Day		492nd Day		493rd Day		494th Day		495th Day		496th Day		497th Day		498th Day		499th Day		500th Day		501st Day		502nd Day		503rd Day		504th Day		505th Day		506th Day		507th Day		508th Day		509th Day		510th Day		511st Day		512nd Day		513rd Day		514th Day		515th Day		516th Day		517th Day		518th Day		519th Day		520th Day		521st Day		522nd Day		523rd Day		524th Day		525th Day		526th Day		527th Day		528th Day		529th Day		530th Day		531st Day		532nd Day		533rd Day		534th Day		535th Day		536th Day		537th Day		538th Day		539th Day		540th Day		541st Day		542nd Day		543rd Day		544th Day		545th Day		546th Day		547th Day		548th Day		549th Day		550th Day		551st Day		552nd Day		553rd Day		554th Day		555th Day		556th Day		557th Day		558th Day		559th Day		560th Day		561st Day		562nd Day		563rd Day		564th Day		565th Day		566th Day		567th Day		568th Day		569th Day		570th Day		571st Day		572nd Day		573rd Day		574th Day		575th Day		576th Day		577th Day		578th Day		579th Day		580th Day		581st Day		582nd Day		583rd Day		584th Day		585th Day		586th Day		587th Day		588th Day		589th Day		590th Day		591st Day		592nd Day		593rd Day		594th Day		595th Day		596th Day		597th Day		598th Day		599th Day		600th Day		601st Day		602nd Day		603rd Day		604th Day		605th Day		606th Day		607th Day		608th Day		609th Day		610th Day		611st Day		612nd Day		613rd Day		614th Day		615th Day		616th Day		617th Day		618th Day		619th Day		620th Day		621st Day		622nd Day		623rd Day		624th Day		625th Day		626th Day		627th Day		628th Day		629th Day		630th Day		631st Day		632nd Day		633rd Day		634th Day		635th Day		636th Day		637th Day		638th Day		639th Day		640th Day		641st Day		642nd Day		643rd Day		644th Day		645th Day		646th Day		647th Day		648th Day		649th Day		650th Day		651st Day		652nd Day		653rd Day		654th Day		655th Day		656th Day		657th Day		658th Day		659th Day		660th Day		661st Day		662nd Day		663rd Day		664th Day		665th Day		666th Day		667th Day		668th Day		669th Day		670th Day		671st Day		672nd Day		673rd Day		674th Day		675th Day		676th Day		677th Day		678th Day		679th Day		680th Day		681st Day		682nd Day		683rd Day		684th Day		685th Day		686th Day		687th Day		688th Day		689th Day		690th Day		691st Day		692nd Day		693rd Day		694th Day		695th Day		696th Day		697th Day		698th Day		699th Day		700th Day		701st Day		702nd Day		703rd Day		704th Day		705th Day		706th Day		707th Day		708th Day		709th Day		710th Day		711st Day		712nd Day		713rd Day		714th Day		715th Day		716th Day		717th Day		718th Day		719th Day		720th Day		721st Day		722nd Day		723rd Day		724th Day		725th Day		726th Day		727th Day		728th Day		729th Day		730th Day		731st Day		732nd Day		733rd Day		734th Day		735th Day		736th Day		737th Day		738th Day		739th Day		740th Day		741st Day		742nd Day		743rd Day		744th Day		745th Day		746th Day		747th Day		748th Day		749th Day		750th Day		751st Day		752nd Day		753rd Day		754th Day		755th Day		756th Day		757th Day		758th Day		759th Day		760th Day		761st Day		762nd Day		763rd Day		764th Day		765th Day		766th Day		767th Day		768th Day		769th Day		770th Day		771st Day		772nd Day		773rd Day		774th Day		775th Day		776th Day		777th Day		778th Day		779th Day		780th Day		781st Day		782nd Day		783rd Day		784th Day		785th Day		786th Day		787th Day		788th Day		789th Day		790th Day		791st Day		792nd Day		793rd Day		794th Day		795th Day		796th Day		797th Day		798th Day		799th Day		800th Day		801st Day		802nd Day		803rd Day		804th Day		805th Day		806th Day		807th Day		808th Day		809th Day		810th Day		811st Day		812nd Day		813rd Day		814th Day		815th Day		816th Day		817th Day		818th Day		819th Day		820th Day		821st Day		822nd Day		823rd Day		824th Day		825th Day		826th Day		827th Day		828th Day		829th Day		830th Day		831st Day		832nd Day		833rd Day		834th Day		835th Day		836th Day		837th Day		838th Day		839th Day		840th Day		841st Day		842nd Day		843rd Day		844th Day		845th Day		846th Day		847th Day		848th Day		849th Day		850th Day		851st Day		852nd Day		853rd Day		854th Day		855th Day		856th Day		857th Day		858th Day		859th Day		860th Day		861st Day		862nd Day		863rd Day		864th Day		865th Day		866th Day		867th Day		868th Day		869th Day		870th Day		871st Day		872nd Day		873rd Day		874th Day		875th Day		876th Day		877th Day		878th Day		879th Day		880th Day		881st Day		882nd Day		883rd Day		884th Day		885th Day		886th Day		887th Day		888th Day		889th Day		890th Day		891st Day		892nd Day		893rd Day		894th Day		895th Day		896th Day		897th Day		898th Day		899th Day		900th Day		901st Day		902nd Day		903rd Day		904th Day		905th Day		906th Day		907th Day		908th Day		909th Day		910th Day		911st Day		912nd Day		913rd Day		914th Day		915th Day		916th Day		917th Day		918th Day		919th Day		920th Day		921st Day		922nd Day		923rd Day		924th Day		925th Day		926th Day		927th Day		928th Day		929th Day		930th Day		931st Day		932nd Day		933rd Day		934th Day		935th Day		936th Day		937th Day		938th Day		939th Day		940th Day		941st Day		942nd Day		943rd Day		944th Day		945th Day		946th Day		947th Day		948th Day		949th Day		950th Day		951st Day		952nd Day		953rd Day		954th Day		955th Day		956th Day		957th Day		958th Day		959th Day	
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IN HOUSE HOLD EXPENDITURE ON CONSUMER DURABLES
 வீட்டுவசதி உபயோகப் பொருட்கள் மீது செலவு
 HOUSE HOLD EXPENDITURE ON CONSUMER DURABLES

Y.O.V.I

செலவு செய்யப்பட்ட
 செலவு ஆண்டின் போது
 During the Preceding Year

வாங்கிய பொருட்கள்
 Consumer Durables

பொருள் Description	ஆண்டு Code	பகுதி Rs.
1. பூக்கூடைகள்/பொருட்கள்/Furniture	Y 000	
2. கம்பிகள்/கம்பிகள்/புகை, கம்பிகள்/புகை, கம்பிகள்/புகை	Y 010	
3. உணவுப் பொருட்கள்/உணவு (i) உணவுப் பொருட்கள்/உணவு	Y 020	
(ii) உணவுப் பொருட்கள்/உணவு	Y 021	
(iii) உணவுப் பொருட்கள்/உணவு	Y 022	
4. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 030	
(i) மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 031	
(ii) மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 032	
(iii) மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 033	
5. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 040	
6. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 050	
7. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 060	
8. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 070	
9. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 080	
10. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 090	
11. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 100	
12. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 110	
13. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 120	
14. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 130	
(i) மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 131	
(ii) மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 132	
15. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 140	
16. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 150	
17. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 160	
18. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 170	
19. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 180	
20. மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்/மின்னளவிகள்	Y 190	

மொத்த செலவு
 Total Annual Expenditure on Consumer Durables