Code Number	Description	Data Sources and Measurement Instruments
	(a) Government agencies	
	(b) Cooperatives	
	(c) Private commercial establishments	
	(d) Other holders	
	(e) Other (to be specified)	
1222	Disposal of products	
12221	Production purpose of holding	
122211	Indication of production purpose of holding:	1,3,11
	(a) For own consumption only	
	(b) Mainly for own consumption	
	(c) Mainly for market	
12222	Allocation of production quantities, for each produce	
122221	Own consumption	3,4,11
122222	Seed for next season	3,11
122223	Animal feed	3,10,11
122224	Sale	3,11
12223	Buyers of quantities sold, for each produce	
122231	Individual consumer	3,11
122232	Tradesmen	3,11
122233	Government agencies	3,11
122234	Other buyers	3,11
12224	Locations of sales, for each produce	
122241	Holding	3,11
122242	Marketplace of locality of holding	3,11
122243	Places outside locality of holding	3,11
12225	Transport of produce to first point of sale, for each produce	
122251	Whether produce transported by holder	3,11
122252	Indication of means of transport:	3,11

	(a) Individuals	
	(b) Animals and animal driven vehicles	
	(c) Tractors	
	(d) Other (to be specified)	
122253	Cost of transport	3,4,11
12226	Time of sale, quantity for each produce	
122261	Before harvest	3,11
122262	Directly from harvest	3,11
122263	After storage	3,11
12227	Value of sales	
122271	Value of sale, for each produce	3,4,11
123	Stocks	
1231	Of agricultural products, by product (for holdings and households)	
12311	Stock at beginning of year	
123111	Total quantity	3,11
123112	Quantity for sale	3,11
123113	Quantity for own consumption	3,4,11
12312	Stock at end of year	
123121	Total quantity	3,11
123122	Quantity for sale	3,11
123123	Quantity for own consumption	3,4,11
1232	Of agricultural inputs, by input (for holdings and agricultural service establishments)	
12321	Stock of chemical inorganice fertilizers at beginning of year	
123211	Quantity of nitrogenous fertilizers	3,11
123212	Quantity of phosphate fertilizers	3,11
123213	Quantity of potash fertilizers	3,11
123214	Quantity of mixed, compound and complex fertilizers	3,11
12322	Stock of chemical inorganic fertilizers at end of year	
123221	Quantity of nitrogenous fertilizers	3,11
123222	Quantity of phosphate fertilizers	3,11
123223	Quantity of potash fertilizers	3,11
123224	Quantity of mixed, compound and complex fertilizers	3,11

Code Number	Description	Data Sources and Measurement Instruments
12323	Stock of pesticides at beginning of year	
123231	Quantity in stock, by type of pesticide	3,11
12324	Stock of pesticides at end of year	
123241	Quantity in stock, by type of pesticide	3,11
13	Prices	
131	Prices received and prices paid by farmers	
1311	Prices received by farmers, by product sold	
13111	Sales directly from holding	
131111	Farm-gate prices	3,10,11
13112	Products whose farm-gate prices are fixed by government	
131121	Whether farm-gate price of product fixed by government	18
1312	Wholesale prices, by product sold	
13121	Sales by producer-sellers at primary wholesale market	
131211	Prices received by producer-sellers	3,10,11
131212	Market entry fees borne by producer-sellers	3,10,11
131213	Incidental charges borne by producer-sellers	3,10,11
131214	Incidental charges borne by wholesale buyers	11,17
13122	Sales by wholesalers at primary wholesale market	
131221	Prices received by wholesalers	11,17
13123	Sales by wholesalers at secondary wholesale market	
131231	Prices received by wholesalers	11,17
131232	Cost of transport incurred by wholesalers	11,17
131233	Incidental charges borne by wholesalers	11,17
131234	Incidental charges borne by buyers (e.g., retailers)	11,17
13124	Products whose wholesale prices are fixed by government	
131241	Whether wholesale price of product fixed by government	18
1313	Retail prices, by product sold	

13131	Sales by producer-sellers at retail markets	
131311	Prices received by producer-sellers	3,10,11
131312	Incidental charges borne by producer-sellers	3,10,11
13132	Sales by retail traders	
131321	Prices received by retail traders	11,17
131322	Cost of transport borne by retail traders	11,17
131323	Incidental charges borne by retail traders	11,17
13133	Products whose retail prices are fixed by government	
131331	Whether retail price of product is fixed by government	18
1314	Export prices, by product exported	
13141	Exports by producer-sellers	
131411	Prices received by producer-sellers	3,10,11,18
131412	Incidental charges borne by producer-sellers	3,10,11,18
13142	Exports by wholesalers	
131421	Prices received by wholesalers	11,17,18
131422	Incidental charges borne by wholesalers	11,17,18
13143	Products whose export prices are fixed by government	
131431	Whether export price of product is fixed by government	18
1315	Prices paid by farmers at point of purchase	
13151	Seed and seedlings, for each crop	
131511	Seeds	3,11
131512	Seedlings	3,11
13152	Animal feed	
131521	Hay	3,10,11
131522	Others (to be specified)	3,10,11
13153	Fertilizers and pesticides	
131531	Nitrogenous fertilizers	3,11
131532	Phosphate fertilizers	3,11
131533	Potash fertilizers	3,11
131534	Other chemical fertilizers (to be specified)	3,11
131535	Organic fertilizers (to be specified)	3,11
131536	Pesticides (to be specified)	3,11
13154	Machinery and equipment	
131541	For each type of machinery and equipment (to be specified)	3,18
13155	Other materials	

Code Number	Description	Data Sources and Measurement Instruments
131551	Gasoline	18
131552	Oil	18
131553	Bags	3
131554	Rope	3
131555	Others (to be specified)	3
13156	Services	
131561	Wage rate for agricultural workers	3,8
131562	Rates for contract services	3,7
13157	Other inputs	
131571	Irrigation rate	3,18
131572	Electricity for light	18
131573	Electricity for power	18
131574	Land rental	3,11
131575	Others (to be specified)	3,11
13158	Transport	
131581	Cost borne by holder to transport goods and services purchased	3,10,11
13159	Agricultural inputs whose prices are subsidized by government	
131591	Whether price of input is subsidized by government	18
132 (to be itemized)	Prices of household consumer goods	4,11
133 (to be itemized)	World prices for agricultural products and inputs	18,20
14	Post-Harvest Foodgrain Losses	
141	At holding	

1411	Losses at harvest	
141101	Whether harvested manually or mechanically	6
141102	Quantity of grain left in field	6
1412	Losses at threshing/shelling	
141201	Method of threshing	6
141202	Quantity of grain lost	6
141203	Quantity of grain damaged	6
1413	Losses at cleaning/winnowing	
141301	Method of cleaning/winnowing	6
141302	Quantity of grain lost	6
1414	Losses at drying	
141401	Method of drying	6
141402	Quantity of grain lost	6
1415	Losses in storage	
141501	Quantity of grain damaged by mites	6
141502	Quantity of grain damaged by micro-organisms	6
141503	Quantity lost due to rodents	6
141504	Relative humidity in storage facility	6
141505	Temperature in storage facility	6
1416	Losses in transport	
141601	Location of transport losses	6
	(1) From field to threshing floor	
	(2) From threshing floor to drying place	
	(3) From threshing floor to cleaning place	
	(4) From farm to storage	
	(5) Other	
1417	Losses in processing	
141701	Mode of processing	6
141702	Quantity of grain lost	6
1418	Losses in packing and handling	
141801	Mode of packaging	6
141802	Quantity of grain lost	6
142	By intermediaries	
(to be itemized)		6

Code Number	Description	Data Sources and Measurement Instruments
143 (to be itemized)	At warehouses	6
15	Income and Outlay	
151	Revenues of holdings and agricultural service establishments not covered elsewhere	
1511	Rentals received	
151101	From land rented out to others	3,4,7
151102	From non-residential buildings rented out to others	3,4,7
151103	From machinery and equipment rented out to others	3,4,7
151104	Other rentals received	3,4,7
1512	Receipts for agricultural services rendered	
15121	Services for crop production	
151211	Land clearing and soil preparation	4,7
151212	Planting	4,7
151213	Cultivation	4,7
151214	Pest and disease control	4,7
151215	Mowing and harvesting	4,7
151216	Farm transport and storage	4,7
151217	Finishing, preparation for market	4,7
15122	Services for livestock production	
151221	Breeding, raising and milking	4,7
151222	Feeding and watering	4,7
151223	Indoor and outdoor care	4,7
151224	Training of animals for agricultural purposes	4,7
151225	Preparation for market	4,7
1513	Other receipts	
151301	Interest	3,4,7

151302	Dividends from stocks held	3,4,7
151303	Insurance compensation for crop or property damage	3,4,7
151304	Other	3,4,7
152	Outlays of holdings and agricultural service establishments not covered elsewhere	
152001	Income taxes	3,4,7
152002	Property taxes	3,4,7
152003	Fines	3,4,7
152004	Other	3,4,7
153	Income of household	
1531	From holdings	
1532	From agricultural service establishments	
1533	From employment outside holdings	
1534	From other sources	
15341	Rentals received	
153411	From residential buildings	4,16
153412	Other rentals	4,16
15342	Interest received	
153421	From credit given to others	4,16
153422	From bank accounts	4,16
15343	Other	
154	Sales of household property by household during past year	
1541	Sale of living quarters	
154101	Total receipts from sale	4,16
154102	Transfer costs borne by seller	4,16
1542	Sale of secondhand durable household goods	
154201	Total receipts from sale	4,16
155	Miscellaneous household receipts	
1551	Inheritance	
155101	Value of property inherited (net of costs)	4,16
1552	Other	
155201	Lottery	4,16

Code Number	Description	Data Sources and Measurement Instruments
155202	Insurance compensation for property damage	4,16
156	Household consumption during past year, value and quantity	
1561-1562	Food, beverages, tobacco and intoxicants	
(all subsections	to be itemized)	4,16
15611	Cereals and related products	
15612	Lentils and other pulses	
15613	Oilseeds, and fats and oils	
15614	Meat, fish and eggs	
15615	Milk and related products	
15616	Condiments and spices	
15617	Vegetables and related products	
15618	Fruits and related products	
15619	Sugar and related products	
15621	Tobacco and related products	
15622	Alcoholic beverages	
15623	Non-alcolohic beverages	
15624	Prepared meals and refreshments	
15625	Other	
1563	Fuel and light	
(to be itemized)		4,16,18
1564	Housing and household furnishings and services	
(all subsections	to be itemized)	4,16
15641	House rent and water charges	
15642	House repairs and maintenance	
15643	Furniture and furnishings	
15644	Household appliances, utensils, etc.	
15645	Household services	

15646	Other	
1565	Clothing and bedding	
(all subsections	to be itemized)	4,16
15651	Ready-made clothing	
15652	Material for clothing	
15653	Headwear	
15654	Bedding	
15655	Footwear	
15656	Other	
1566-1567	Miscellaneous expenditures	
(all subsections	to be itemized)	4,16
15661	Medical care	
15662	Personal care, toiletries, etc.	
15663	Education and reading	
15664	Recreation and amusement	
15665	Transport and communication	
15666	Subscriptions and charity	
15667	Personal effects	
15668	Taxes (excluding for holdings and agricultural service establishments)	
15669	Interest (excluding for holdings and agricultural service establishments)	
15671	Legal fees (excluding for holdings and agricultural service establishments)	
15672	Other	
1568	Savings	
(to be itemized)		4,16
16-17	Other	
161	Foreign trade of agricultural inputs and products	
1611	Exports	
16111	For each commodity, during past year	
161111	Quantity exported, by destination	18,20
161112	Value of exports, by destination	18,20

Code Number	Description	Data Sources and Measurement Instruments
16112	Other information related to exports	
161121	Population of each importing country	20
161122	Industrial demand for exported and exportable commodities in each importing country	20
161123	Production of exported and exportable commodities in each competing country	20
161124	Stocks of exported and exportable commodities in each importing country	20
161125	Means of transport to each destination	17
1612	Imports	
16121	For each commodity, during past year	
161211	Quantity imported, by origin	18,20
161212	Value of imports, by origin	18,20
16122	Other information related to imports, for each imported commodity	
161221	Domestic production of commodity or its substitute	2,11,14,17,18
161222	Quantity used in agriculture	3,11,18
161223	Quantity used in industries other than agriculture	14,17,18
161224	Quantity used for final consumption	4,15,18
1613	Foreign exchange	
161301	Earnings during past year	18
161302	Expenditures during past year	18
162	National accounts and budget	
1621	National accounts	
162101	Gross domestic product, by economic sector	18
162102	Income taxes paid by holdings	18
1622	Annual national budget	
16221	Total budget	
162211	Capital outlays	18

162212	Current expenditures	18
16222	Amount allocated to agriculture	
162221	Capital outlays	18
162222	Current expenditures	18
163	Government land and water development and crop improvement projects	
1631	Total cost	
163101	Internally financed part of cost	18
163102	Externally financed part of cost	18
1632	Benefits	
(to be itemized)		18
164	Government-held stocks of agricultural products	
164001	Capacity of storage facilities	18
164002	Quantity held of each crop	18
165	Domestic manufacturing	
1651	Agricultural inputs (for each input)	
165101	Production capacity of establishments	14,17,18
165102	Actual production during past year	14,17,18
165103	Investment planned for next year	17
1652	Other manufacturing (for each product)	
165201	Quantity of agricultural products used as inputs during past year	14,17
165202	Quantity of food manufactured during past year	14,17
166	Climatic data, by region	
166001	Rainfall	18
166002	Risks of water-related hazards	11
166003	Number of days with sunshine	18
166004	Temperature	18
166005	Number of days with frost	18
166006	Agricultural calendar, for each crop	18,19

Code Number	Description	Data Sources and Measurement Instruments
167	Community services available at village level	
167001	Primary school	18,19
167002	Potable water	18,19
167003	Electricity	18,19
167004	Public health services	18,19
168	Technological research information	
(to be itemized)		21
169	Quality of irrigation water	
(to be itemized)		9,21
171	Soil characteristics	
(to be itemized)		9,21
172	Agricultural extension	
172001	Number of extension workers	18
172002	Number of transport vehicles	18
173	Agricultural education	
173001	Number of students at university-level educational institutions specializing in agriculture	18
173002	Number of students at secondary-school-level educational institutions specializing in agriculture	18
174	Miscellaneous	
174001	Number of land disputes brought to court	18
174002	Length of all-weather roads in rural areas	18
174003	Nutritional composition of agricultural products	21

APPENDIX II

A SUGGESTED CLASSIFICATION OF CONSUMER FOOD ITEMS

Code Number[1]/	Description
	Food
	Cereals and cereal products
	Grains as whole grain, meal, flour (specify where important: wheat, rice, rye, barley, oats, maize, millet, sorghums, etc.)
	Pastas: macaroni, spaghetti, etc.
	Commercially baked goods (specify where important: bread and other baked goods)
	Other cereals and cereal products (specify where important)
	Starches and starchy roots
	Potatoes (specify form where important: fresh [old, new], canned, dehydrated, flour, etc.)
	Sweet potatoes (specify form where important: fresh, flour, etc.)
	Cassava (specify form where important: fresh, meal, flour, etc.)
	Other starchy roots (specify where important)
	Starches, pure, dry (specify where important: wheat, maize, rice, potato, cassava starches, sago, etc.)
	Sugars and sweets
	Sugars (specify where important: crude, refined, cane, beet, palm, coconut, maple, etc.)
	Syrups and molasses (specify where important: molasses of cane sugar, of sugar beet; cane juice; cane, maple, corn, carob, grape, date syrups, etc.)
	Honey (including honey on the comb, etc.)
	Others (specify where important: jams, marmalades, candy)
	Pulses (dry)
	Beans (specify where important: broad beans, kidney beans, lima beans, mung beans, etc.)
	Peas (specify where important: dry peas, lentils, chick-peas, etc.)
	Soybeans and soybean products (specify where important: whole soybeans; soy sauce, soybean curd, paste, milk, flour; etc.)

Code Number[1]/	Description
	Nuts
	Groundnuts (specify form where important: in shell, shelled, salted, in butter, etc.)
	Coconuts (specify form where important: mature nuts, immature nuts, coconut milk, shredded coconut, etc.)
	Other tree nuts (specify where important: almonds, pistacios, cashew nuts, cashews, walnuts, pecans, wild or unspecified, etc.)
	Seeds
	Seeds (specify where important: squash, watermelon, sunflower, sesame, etc.)
	Vegetables
	Roots, bulbs and tubers (specify where important: beets, carrots, kohlrabi, leeks, mature onions, okra, parsnips, radishes, horseradish, salsify, scorzonera, turnips, rutabaga, etc.)
	Leafy vegetables (specify where important: bean sprouts, beet greens, Brussels sprouts, cabbage, cassava leaves, celery, chicory and endive, kale, lettuce, mustard greens, okra leaves, parsely, spinach, onion leaves, etc.)
	Tomatoes (specify where important: fresh, canned, etc.)
	Other vegetables, edible flowers, stems
	Fruits
	Bananas and plantains
	Citrus fruits (specify where important: grapefruit, lemons, limes, oranges, etc.)
	Fat-rich fruits (specify: olives, avocados, etc.)
	Other fresh fruits (specify where important: apples, pears, etc.)
	Dried fruits (specify: dates, figs, raisins, etc.)
	Meat and meat products, poultry and insects
	Fresh and frozen meat (specify where important: beef, veal, pork, mutton and lamb, goat, etc.)
	Offal (specify where important: animal and part - liver, kidney, brain, heart, sweetbread, etc.)
	Meat products (specify where important: bacon, ham, dried beef, dried pork, canned beef, canned pork, etc.)
	Insects (specify and distinguish at least between adults and larvae)

Code Number[1]/	Description
	Eggs
	Eggs (specify fresh, dried, frozen, etc.: hen, duck, goose, turtle, etc.)
	Fish and shellfish
	Fish, fresh (specify and distinguish between fat fish [salmon, trout, herring, mackerel, etc.] and low-fat fish [cod, haddock, etc.])
	Shellfish (specify: lobster, crawfish, crabs, shrimps, oysters, clams, mussels, etc.)
	Fish, salted, smoked or dried (specify fat-rich and fat-poor)
	Fish, canned (specify: in oil, not in oil, fat-rich and fat-poor)
	Shellfish, canned (specify: lobster, crawfish, crabs, shrimps, oysters, clams, mussels, etc.)
	Other aquatic animals (frogs, turtles, etc.)
	Milk and dairy products (excluding butter)
	Milk, liquid, whole (specify: cow, goat, sheep, buffalo, camel, etc.)
	Milk, liquid, skim or buttermilk, partly skimmed
	Cream (specify fat content)
	Cheese (specify varieties: hard, soft, etc.)
	Milk, processed (specify: evaporated, condensed, sweetened, dried, etc.)
	Yogurt, other fermented milk and fresh milk products
	Ice cream
	Oils and fats
	Vegetable oils and fats (specify: oils, hardened shortening, etc.)
	Animal fats (specify: butter, ghee, lard, etc.)
	Marine oils (specify)
	Mixed products of vegetable, animal or marine origin (specify)
	Other oil and fat products (specify: mayonnaise, dressings, etc.)
	Beverages
	Alcoholic drinks (specify: beer, wine, spirits, etc.)
	Canned or bottled soft drinks (specify)
	Other beverages (specify: tea, coffee, etc.)

Code Number[1]/	Description
	Miscellaneous
	Miscellaneous (specify: spices, salt, yeast, condiments, etc.)

1/ When such commodity detail is necessary (see, for example, sections 5.3.12 and 5.3.14 for detail on prices and income and outlay, respectively), the six-digit code should be expanded accordingly. A similar approach is required for machinery and equipment (section 5.3.8).

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GLOSSARY

DEFINITION OF TERMS FOR A NATIONAL INFORMATION SYSTEM FOR FOOD AND AGRICULTURE

SYSTEM

A collection of objects or processes, called components, which interact to perform a given function or functions.

MODEL

A system which is an abstraction of another system, called the reference system.

INFORMATION

In general, knowledge used for a purpose: in particular, used to support decision making.

DATA

The subset of information which encompasses quantitative and qualitative measured facts.

INFORMATION SYSTEM

A dynamic process and an organization, with associated statistical and analytical programmes, personnel, budgets and support services, whose function is to provide information in support of decision making in a specific subject area by a specific set of decision makers. The five component processes include: (a) conceptualization, (b) operational definition of concepts of the target world; (c) observation and measurement of the target world; (d) interpretation and analysis; and (e) decision making and implementation.

STATISTICAL PROGRAMME

The complex of government agencies, personnel, budgets, support services and internal and external institutional linkages with primary responsibility for (a) the observation and measurement component of the information system, and (b) in concert with decision makers and the analytical programme, conceptualization and the operational definition of concepts; and secondary responsibility for (c) supporting the analytical programme in statistical interpretation and analysis.

ANALYTICAL PROGRAMME

The complex of government agencies and institutes, personnel, budgets, support services and internal and external institutional linkages with primary responsibility for (a) interpretation and analysis component of the information system, and (b) in concert with decision makers and the statistical programme, conceptualization and the operational definition and redefinition of concepts; and secondary responsibility for (c) supporting and supplementing the statistical programme in observation and measurement through helping to identify data collection and data processing needs and priorities.

SYSTEMS APPROACH

A formalized decision-making process, where (a) a decision must be made among a set of feasible alternatives in order to achieve some objective; and (b) the portion of the world relevant to that particular decision problem is looked at as a system, and the decision options are formulated as systems.

The process has the following stages: (1) observation, (2) problem definition, (3) synthesis and analysis of options, (4) decision, (5) implementation and (6) monitoring results. The process is (a) cyclic in that the sixth stage is the same as the first stage of a new decision-making cycle; (b) iterative in that earlier stages may be repeated or redone based on information gained at later stages; and (c) interactive in that the active involvement of and close interaction with decision makers is a critical and essential element.

In the context of information for food and agricultural decision-making, the systems approach is applied to (a) designing effective information systems, and (b) defining policy issues and formulating and analysing policy options.

NATIONAL INFORMATION SYSTEM FOR FOOD AND AGRICULTURE

An information system operated by a national government to support government, and possible private, decision makers responsible for what that nation defines its domain of food and agriculture to be. This information system does not generally satisfy all the information needs of food and agricultural decision makers. Additional information is typically needed from domains of other socio-economic sectors (including political and national security domains).