

APPENDIX I

CLASSIFICATION OF ITEMS AND MEASUREMENT INSTRUMENTS

The classification scheme organizes items for a food and agricultural information system into the following hierarchy of generality:

Category
Division
Section
Subsection
Item

Each item is represented by a six-digit code, where the first two digits refer to the category, the third digit to the division, the fourth digit to the section, and the fifth digit to the subsection. If there is no disaggregation of a division into sections or of a section into subsections, the corresponding digit for that level is zero. Some items are further disaggregated by various dimensions of interest, indicated by a seventh digit in parentheses, e.g., age classes (1) under 1 year of age, (2) 1 year to under 2 years of age, and so on. This selection of items is motivated by the general information needs of food and agricultural decision making. Since those needs will vary with each country's particular situation, the item list should be modified accordingly for implementation on a country-by-country basis.

The right-hand column in the following table indicates, for each item, the appropriate data sources and instruments for measuring it. These 21 instruments and data sources, which are discussed in Chapter 6, are identified as follows:

- 1 Census of agriculture
- 2 Periodic agricultural production survey
- 3 Farm management survey
- 4 Rural household income and expenditure survey
- 5 Food consumption survey
- 6 Survey of post-harvest losses
- 7 Survey of agricultural service establishments
- 8 Rural labour force survey
- 9 Soil survey
- 10 Livestock census

- 11 Special agricultural censuses and surveys on particular subjects
- 12 Census of population and housing
- 13 Demographic survey
- 14 Census of industrial establishments
- 15 Survey of rural household industries
- 16 Urban household income and expenditure survey
- 17 Other non-agricultural censuses and surveys
- 18 Administrative records
- 19 Locality records
- 20 International statistical publications
- 21 Technological research

Code Number	Description	Data Sources and Measurement Instruments
01	<u>Identification</u>	
011	Holding, holder, respondent	
0111	Holding	
011101	Address	1,2,3,4,6,10,11,16
0112	Holder	
011201	Name	1,2,3,4,6,10,11,16
011202	Address, if different from holding	1,2,3,4,6,10,11,16
0113	Respondent for holding	
011301	Whether respondent is holder	1,2,3,6,10,11
011302	Name, if not holder	1,2,3,6,10,11
012	Household, head of household, respondent	
0121	Household	
012101	Address	1,4,5,8,12,13,15,16
0122	Head of Household	
012201	Name	1,4,5,8,12,13,15,16
012202	Address	1,4,5,8,12,13,15,16
0123	Respondent for household	
012301	Whether respondent is head of household	4,5,8,12,13,15,16
012302	Name, if not head of household	4,5,8,12,13,15,16
013	Agricultural service establishments	
013001	Title	7,18
013002	Address	7,18
014	Locality	
014001	Name	18,19
014002	Address	18,19

015	Other units (to be specified)	
02	<u>General Characteristics</u>	
021	Holding	
0211	Holder	
021101	Legal status of holder	
	(a) Private	1,3
	- An individual	
	- A household	
	- Two or more individuals of different households or two or more households	
	- Corporation	
	- Cooperative	
	- Collective	
	- Other	
	(b) Government	
0212	Hired manager	
021201	Whether there is a hired manager	1,3
021202	Name	1,3
021203	Address, if different from holding	1,3
021204	Whether has fixed wage or shares economic and financial responsibility of holding	1,3
0213	Economic Activities of an enterprise	
021301	Whether holding part of enterprise with other economic activities	1
021302	Other economic activities of enterprise	1
	(a) Agricultural services	
	(b) Hunting, trapping and game propagation	
	(c) Forestry and logging	
	(d) Fishing	
	(e) Manufacturing	
	(f) Other (to be specified)	
022	Agricultural service establishments	

Code Number	Description	Data Sources and Measurement Instruments
022001	Type of legal organization (a) Private - Individual proprietorship - Corporation - Cooperative - Other (e.g., partnership) (b) Government	7, 18, 19
023	Cooperatives (for holdings and agricultural service establishments)	
023001	Number of members	7, 18, 19
023002	Number of male members	7, 18, 19
023003	Number of female members	7, 18, 19
03	<u>Demographic and Anthropometric Characteristics</u>	
031	General information	
0311	Household	
031101	Number of household members	1, 3, 4, 5, 8, 12, 13, 16
0312	Household members	
031201	Name	1, 3, 4, 5, 8, 12, 13, 16
031202	Age	1, 3, 4, 5, 8, 12, 13, 16
031203	Sex	1, 3, 4, 5, 8, 12, 13, 16
031204	Educational attainment	1, 4, 5, 8, 12, 13, 16
031205	Marital status	1, 4, 5, 8, 12, 13, 16
031206	Relationship to head of household	1, 4, 5, 8, 12, 13, 16

032	Guests	
032001	Name	4, 5, 12, 13, 16
032002	Age	4, 5, 12, 13, 16
032003	Sex	4, 5, 12, 13, 16
032004	Duration of stay with household	4, 5, 12, 13, 16
033	In-migration and out-migration	
034	Anthropometric characteristics of household members	
034001	Height	5, 13
034002	Weight	5, 13
034003	Other anthropometric measures	5, 13
04	<u>Employment</u>	
041	For each household member	
0411	Status of labour force participation	
041101	Whether economically active	1, 3, 4, 5, 8, 12, 13, 15, 16
0412	Occupation	
041201	Whether has more than one occupation	1, 3, 4, 5, 8, 12, 13, 15, 16
041202	Main occupation	1, 3, 4, 5, 8, 12, 13, 15, 16
041203	Whether "farmer" is secondary or tertiary occupation, if not main	1, 3, 8, 12
0413	Employment status	
041301	Employment status in main occupation	1, 3, 4, 5, 8, 12, 13, 15, 16
041302	Employment status in secondary or tertiary occupation, if "farmer"	1, 3, 8, 12
042	Employment on holding	
0421	For each member of holder's household (including holder) -- for holdings whose holders are real persons	
042101	Whether any work done on holding during year	1, 3, 8
042102	Whether permanent or occasional agricultural worker on holding	1, 3, 8

Code Number	Description	Data Sources and Measurement Instruments
042103	Number of days worked on holding during past month	3,8
042104	Allocation of time among activities	3,8
042105	Whether remuneration received for work during year	1,3,8
042106	Total wages received from holding during year	3,8
0422	Agricultural workers, other than members of holder's household	
04221	Indication of use	
042211	Whether permanent agricultural workers employed during year	1,3,8
042212	Whether occasional agricultural workers employed during year	1,3,8
04222	Number of permanent agricultural workers	
042221	Male	3,8
042222	Female	3,8
043	Employment in agricultural service establishments	
0431	Unpaid family workers	
043101	Number used during year	7,8
0432	Permanent agricultural workers	
043201	Number of males used during year	7,8
043202	Number of females used during year	7,8
044	Cost of labour (for holdings and agricultural service establishments)	
0441	Wages paid	
04411	To hired manager	3,4,5,7,8
044111	In cash	3,4,5,7,8
044112	In kind	3,4,5,7,8
04412	To permanent agricultural workers	
044121	In cash	3,4,5,7,8
044122	In kind	3,4,5,7,8
04413	To occasional agricultural workers	

044131	In cash	3,4,5,7,8
044132	In kind	3,4,5,7,8
0442	Cost of insurance and other fringe benefits	
044201	Whether agricultural workers covered by social or private schemes	3,7,8
044202	Employer's share of premiums paid	3,4,5,7,8
045	For each agricultural worker -- permanent and occasional (for holdings and agricultural service establishments)	
0451	Identification	
045101	Name	3,7,8
045102	Age	3,7,8
045103	Sex	3,7,8
0452	Time worked	
045201	Number of days worked	3,7,8
045202	Allocation of time among activities	3,7,8
0453	Wages earned	
04531	Daily wage	
045311	In cash	3,7,8
045312	In kind	3,7,8
04532	Annual earnings	
045321	In cash	3,7,8
045322	In kind	3,7,8
046	Participants in cooperatives, collectives or communal holdings	
046001	Name	8,18
046002	Age	8,18
046003	Sex	8,18
047	Employment outside holding (for households of which at least one member is a holder)	
0471	For each member of household (including holder)	
047101	Whether employed outside holding during year	3,8
047102	Whether employed outside holding permanently or occasionally	3,8
047103	Number of man-days worked	8

Code Number	Description	Data Sources and Measurement Instruments
047104	Occupation	8
047105	Earnings for year	3, 4, 5, 8
047106	Location of work	8
	(a) Within locality of household	
	(b) Outside locality of household	
05	<u>Land and Water</u>	
051	For entire holding	
0511	Number of parcels	1, 2, 3, 6, 19
051101	Number of parcels	
051102	Total area	1, 2, 3, 6, 19
0512	Rental of land	
05121	Land rented to others	
051211	Whether land rented to other during year	1, 3
051212	Area of land rented to others during year	3
05122	Land rented from others	
051221	Whether land rented from others during year	1, 3
051222	Rent paid in cash for land rented during year	3
051223	Rent paid in kind for land rented during year	3
0513	Land purchased or sold	
05131	Land purchased	
051311	Whether land purchased during year	3, 18
051312	Total cost of land purchased	3, 4
051313	Transfer cost of purchase transactions borne by holding	3
05132	Land sold	
051321	Whether land sold from holding during year	3, 18
051322	Total sales receipts	3, 4

051323	Transfer cost of sales transaction borne by holding	3
0514	Shifting cultivation	
051401	Whether shifting cultivation practised	1,3
051402	Area abandoned at beginning of year, if any	3
0515	Use of soil conditioners	
05151	Indication and area of use	
051511	Whether soil conditioners applied to holding land during year	1,3
051512	Area of application, if any	1,3
05152	Costs of soil conditioner applications during year	
051521	Own account	3,4
051522	Contracted	3,4
0516	New cropland	
05161	Indication and area of additions during year	
051611	Whether additions made to cropland from other land in holding	1,3
051612	Area added to cropland during year	
05162	Costs of cropland additions during year	
051621	Own account	3,4
051622	Contracted	3,4
0517	New permanent meadows and pastures	
05171	Indication and area of additions during year	
051711	Whether additions made to permanent meadows and pastures during year	1,3
051712	Area added to permanent meadows and pastures during year	1,3
05172	Costs of permanent meadow and pasture additions during year	
051721	Own account	3,4
051722	Contracted	3,4
0518	Irrigation	
05181	Indication and area of normal irrigation	
051811	Whether any land in holding irrigable with existing equipment	1,3
051812	Whether any land in holding actually irrigated during year	1,3
051813	Total area actually irrigated	1,3
05182	Source of irrigation water	
051821	Belonging to holding	
	(a) Natural spring	1,3

Code Number	Description	Data Sources and Measurement Instruments
	(b) Well	
051822	(c) Others (e.g., reservoirs filled by rainfall) Not belonging to holding	1,3
	(a) Government-built irrigation canal	
	(b) Rivers and creeks	
05183	(c) Others (e.g., from neighbours' sources Costs of irrigation during year	
051831	Own-account construction of irrigation facilities	3,4,7
051832	Contracted construction of irrigation facilities	3,4
051833	Payments to outside sources for irrigation water used	3,4
0519	Drainage	
05191	Indication, area and type of drainage	
051911	Whether any land of holding has drainage facilities	1,3
051912	Total area having drainage facilities	1,3
051913	Type of drainage facilities	3
	(a) Pumping through open drains	
	(b) Pumping through covered drains	
	(c) Gravity flow through open drains	
	(d) Gravity flow through covered drains	
05192	Costs of building drainage facilities during year	
051921	Own account	3,4
051922	Contracted	3,4
052	For each parcel	
0521	Location, area and distance	
052101	Location	1,2,3,6
052102	Total area	1,2,3,6
052103	Distance to residence	3,6
0522	Area by tenure	

05221	Owned or held in owner-like possession	1,3
052211	Area owned or held in owner-like possession	
05222	Rented from others	1,3
052221	Area rented for an agreed amount of money and/or produce	1,3
052222	Area rented for a share of produce	1,3
052223	Area rented in exchange for services	1,3
052224	Area rented under other arrangements	1,3
05223	Squatter basis	
052231	Area operated on a squatter basis	1,3
05224	Tribal or traditional communal forms of tenure	
052241	Area operated under tribal or traditional communal forms of tenure	1,3
05225	Other forms of tenure	
052251	Area operated under other forms of tenure	1,3
0523	Rent	
05231	Rent paid during the year	
052311	In cash	3,4
052312	In kind	3,4
0524	Land use	
05241	Arable land	
052411	Land under temporary crops - in open air	1,2,3
052412	Land under temporary meadows	1,2,3
052413	Land temporarily fallow	1,2,3
052414	All other arable land	1,2,3
05242	Land under protective cover	
052421	Land under protective cover - temporary crops	1,2,3
052422	Land under protective cover - permanent crops	1,2,3
05243	Land under permanent crops	
052431	Land under permanent crops	1,2,3
05244	Land under permanent meadows and pastures	
052441	Cultivated	1,2,3
052442	Naturally grown	1,2,3
05245	Woodland or forest	1,2,3
052451	Woodland or forest	
05246	All other land	1,2,3

Code Number	Description	Data Sources and Measurement Instruments
052461	Unused and undeveloped potentially productive land	1,2,3
052462	Land in holdings not elsewhere specified	1,2,3
0525	Irrigation and drainage	
052501	Whether normally irrigated	1,3
052502	Whether drainage facilities used	1,3
0526	Shifting cultivation	
052601	Area cleared for cultivation	1,3
06	<u>Crops</u>	
061	For entire holdings	
0611	Temporary crops	
06111	Crops grown during year	
061111	Name of crops grown	1,2,3
06112	Quantity produced of each crop grown during year	
061121	Early forecast	2,3
061122	Final estimate	2,3,18
06113	Value of production of each crop grown during year	
061131	Value of production	2,3,4
06114	Area harvested of each crop grown during year	
061141	Area harvested	1,2,3,18
0612	Permanent crops	
06121	Crops grown	
061211	Name of crops grown	1,2,3,11
06122	Quantity produced of each crop during year	
061221	Early forecast	2,3
061222	Final estimate	2,3
06123	Value of production of each crop during year	
061231	Value of production	2,3,4

06124	Plantation features and ages of trees for each crop	
061241	Number of scattered trees	1,2,3,11
061242	Number of trees of productive age in compact plantations	1,2,3,11
061243	Area under trees of productive age in compact plantations	1,2,3,11
061244	Number of trees of non-productive area in compact plantations	1,2,3,11
061245	Area under trees of non-productive age in compact plantations	1,2,3,11
0613	Fertilizers	
06131	Use and cost of chemical inorganic fertilizers during year	1,2,3
061311	Whether chemical inorganic fertilizers applied	3,4
061312	Cost of chemical inorganic fertilizers applied	
06132	Quantity of chemical inorganic fertilizers applied during year	
061321	Nitrogenous fertilizers	2,3,18
061322	Phosphate fertilizers	2,3,18
061323	Potash fertilizers	2,3,18
061324	Mixed, compound and complex fertilizers	2,3,18
06133	Organic manure and other fertilizers applied during year	
061331	Whether organic manure or other fertilizers applied	1,2,3
061332	Type of organic manure applied	1,2,3
	(a) Farmyard manure	
	(b) Compost	
	(c) Green manure	
	(d) Kelp	
061333	Cost of organic manure applied	3,4
061334	Type of other fertilizers applied	3,4
	(a) Guano	
	(b) Fish manure	
	(c) Fish guano	
	(d) Bone meal	
	(e) Wood ashes	
	(f) Others (to be specified)	
061335	Cost of other fertilizers applied	3,4
0614	Pesticides	
061401	Whether pesticides applied during year	1,2,3

Code Number	Description	Data Sources and Measurement Instruments
061402	Type of pesticides applied during year	1, 2, 3
	(a) Insecticides	
	(b) Fungicides	
	(c) Fumigants	
	(d) Herbicides	
	(e) Rodenticides	
	(f) Other pesticides	
061403	Cost of pesticides applied	
0615	Seeds and young plants	3, 4
061501	Whether high-yield variety seeds used during year for each crop	
061502	Quantity of seed used during year for each crop	1, 2, 3
061503	Cost of seed from outside holding used for each crop	2, 3
061504	Cost of young plants acquired from outside holding	2, 3, 4
0616	Animal power	2, 3, 4
061601	Cost of animal power used during year	3, 4
0617	Machinery	
061701	Cost of machinery use during year for each machine used	3, 4
0618	Crop insurance	
061801	Whether any crops insured during year	1, 3
061802	Cost of crop insurance for year	3, 4
062	For each parcel	
0621	Crop stand	
062101	Indication of crop stand	1, 2, 3
	(a) Pure stand - temporary crop	
	(b) Pure stand - permanent crop	
	(c) Mixed - temporary crops	
	(d) Mixed - permanent crops	

0622	(e) Associated crops	
062201	Temporary crops - rotation and intensity	1,3
062202	Crop rotation	1,2,3
	Cropping intensity	
	(a) Two or more years of fallow after each cropping year	
	(b) One year cropping followed by one year fallow	
	(c) Two years cropping followed by one year fallow	
	(d) Cultivated once each year	
	(e) Cultivated twice each year	
	(f) Cultivated three times each year	
	(g) Other (to be specified)	
062203	Holder's intended use of parcel during next year	2,3
0623	Temporary crops - inputs used	
06231	Area	
062311	Area sown for each crop	1,2,3
062312	Area harvested for each crop	1,2,3
06232	Seed	
062321	Type of seed for each crop	1,2,3
	(a) High yielding	
	(b) Other	
062322	Quantity of seed used for each crop	2,3
062323	Cost of seed used for each crop	3
06233	Quantity of chemical inorganic fertilizers	
062331	Nitrogenous fertilizers	3
062332	Phosphate fertilizers	3
062333	Potash fertilizers	3
06234	Cost of fertilizers and pesticides	
062341	Cost of chemical fertilizers	3
062342	Cost of all other types of fertilizers	3
062343	Cost of pesticides	3
06235	Animal power	
062351	Days of use of animals to cultivate parcel, for each animal used	3
062352	Cost of animal power used	3
06236	Machinery	
062361	Days of use of machinery to cultivate parcel, for each machine used	3

Code Number	Description	Data Sources and Measurement Instruments
062362	Cost of use of machinery	3
06237	Labour	
062371	Unpaid family workers' time used	3
062372	Other workers' time used	3
06238	Insurance	
062381	Cost of crop insurance	3
0624	Temporary crops - outputs	
06241	Yield	
062411	Yield per unit area for each crop	3
06242	Quantity of production for each crop	
062421	Early forecast	3
062422	Final estimate	3
0625	Permanent crops - plantation characteristics for each crop	
06251	Plantation features and ages of trees	
062511	Number of scattered trees	1,2,3
062512	Number of trees of productive age in compact plantations	1,2,3
062513	Area under trees of productive age in compact plantations	1,2,3
062514	Number of trees of non-productive age in compact plantations	1,2,3
062515	Area under trees of non-productive age in compact plantations	1,2,3
0626	Permanent crops - inputs used during year - nonproductive age	
06261	Young plants	
062611	Source of young plants planted	3
	(a) Own nursery	
	(b) Outside holding	
062612	Cost of young plants from outside holding	3
06262	Quantity of chemical inorganic fertilizers applied	
062621	Nitrogenous fertilizers	3
062622	Phosphate fertilizers	3
062623	Potash fertilizers	3

062624	Mixed, compound and complex fertilizers	3
06263	Cost of fertilizers and pesticides applied	
062631	Cost of chemical fertilizers	3
062632	Cost of all other types of fertilizers	3
062633	Cost of pesticides	3
06264	Animal power	
062641	Days of use of animals to cultivate parcel, for each animal used	3
062642	Cost of animal power used	3
06265	Machinery	
062651	Days of use of machinery to cultivate parcel, for each machine used	3
062652	Cost of use of machinery	3
06266	Labour	
062661	Unpaid family workers' time used	3
062662	Other workers' time used	3
0627	Permanent crops - inputs used during year - productive age	
06271	Quantity of chemical inorganic fertilizers applied	
062711	Nitrogenous fertilizers	3
062712	Phosphate fertilizers	3
062713	Potash fertilizers	
062714	Mixed, compound and complex fertilizers	3
06272	Cost of fertilizers and pesticides applied	
062721	Cost of chemical fertilizers	3
062722	Cost of all other types of fertilizers	3
062723	Cost of pesticides	3
06273	Animal power	
062731	Days of use of animals to cultivate parcel, for each animal used	3
062732	Cost of animal power used	3
06274	Machinery	
062741	Days of use of machinery to cultivate parcel, for each machine used	3
062742	Cost of use of machinery	3
06275	Labour	

Code Number	Description	Data Sources and Measurement Instruments
062751	Unpaid family workers' time used	3
062752	Other workers' time used	3
06276	Insurance	
062761	Cost of crop insurance	3
0628	Permanent crops - output	
06281	Yield	
062811	Yield per unit area for each crop	3
06282	Quantity produced for each crop	
062821	Early forecast	3
062822	Final estimate	3
06283	Young plants	
062831	Number grown in nurseries and sold	3
062832	Number grown in nurseries and used on holding	3
0629	Permanent crops - nurseries	
062901	Cost of chemical fertilizers applied	3
062902	Cost of pesticides applied	3
062903	Unpaid family workers' time used	3
062904	Other workers' time used	3
07-08	<u>Livestock</u>	
071	Management and population	
0711	Livestock production system	
071101	Type of production system	1,3,10
	(a) Nomadic or totally pastoral	
	(b) Semi-nomadic or semi-pastoral	
	(c) Sedentary pastoral	
	(d) Ranching	
0712-0713	Animal numbers, by animal type	