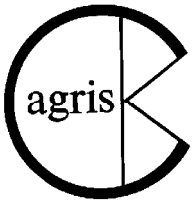
AGRIS
International Information System for the
Agricultural Sciences and Technology

CARIS
Current Agricultural Research Information System




**FAO-AGRIS—3 Rev. 5.1 (En)**
**FAO-CARIS—7 Rev. 5.1 (En)**

# AGRIS/CARIS: Categorization Scheme

August 1998

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Food and Agriculture Organization of the United Nations

**AGRIS Input Tools (January 1998)**

| | |
|---|---|
| FAO-AGRIS-3 (Rev. 5): | AGRIS /CARIS Categorization Scheme |
| FAO-AGRIS-4 (Rev. 3): | AGRIS: Guidelines for Bibliographic Description and Input Sheet Preparation |
| FAO-AGRIS-7 (Rev. 3): | AGRIS: Specifications and Record Formats of Electronic Media (combines the former manuals FAO-AGRIS-7 and FAO-AGRIS-8) |
| FAO-AGRIS-9 (Rev. 2): | AGRIS: Serial List 1991-1996 (available on request) |
| FAO-AGRIS-23 (Rev. 2): | AGRIS: Guide to Indexing (available as draft in English only) |
| FAO-AGRIS-24: | AGRIN User Manual (available on request) |
| AGRIS Input Pack | |
| AGROVOC | |

**CARIS Input Tools (January 1998)**

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## INTRODUCTION

The AGRIS/CARIS Categorization Scheme is one of the tools used for subject control in AGRIS and CARIS. It should be used jointly with AGROVOC in order to describe completely and precisely the subject of a document or a research project. It has been prepared to:

a) define the scope of AGRIS and CARIS
b) assign subject categories to entries in AGRIS and CARIS
c) arrange entries in *Agrindex* (printed till 1995) and bibliographies extracted from AGRIS
d) assist in retrieval from Agrindex and from the AGRIS and CARIS databases

### Scope

The scope of AGRIS and CARIS coincides with the scope of FAO and covers agriculture and its related fields, including fisheries, forestry, food, veterinary science and rural development. The AGRIS/CARIS Categorization Scheme is the basic manual for the categorization of agricultural literature and agricultural research projects to be included respectively in AGRIS and CARIS, and gives a breakdown of the AGRIS/CARIS subject scope into a number of main fields which are further subdivided into specific subject categories. Each subject category is represented by a code.

In this expanded version of the AGRIS/CARIS Categorization Scheme two new categories have been added:

1. E90 - Agrarian structure
   to cover the multidisciplinary approach to agrarian systems, which deals simultaneously with their technical, economic and sociological aspects;
2. T10 - Occupational diseases and hazards to cover the harmful effects of occupational activities and work environment on the health and safety of workers in the field of agriculture.

Agricultural information is selected for the AGRIS and CARIS systems by matching against the subject categories.

Note: The matching must be done critically, in order to exclude material outside the scope. AGRIS and CARIS are mission-oriented systems, the mission being that of FAO, namely raising levels of nutrition and standards of living, bettering the conditions of rural populations, improving the production and distribution of food and other primary products of agriculture, forestry and fisheries. Information, therefore, should be reported to the systems only if the work it describes is within, or has a purpose related to, the mission of AGRIS and CARIS. Items which deal with purely academic research belong more appropriately in discipline-oriented systems, whether chemical, biological, medical or socio-economic, and not in AGRIS or CARIS.

### Agrindex (stopped as of January 1996)

A primary subject category reflects the main topic of each document. It determines the heading under which a citation was printed in Agrindex (stopped in 1995), the monthly printed bibliography of AGRIS. When the document contains further information within the scope, up to two additional subject categories may be assigned. In Agrindex, the full bibliographical citation is, however, printed only under the first (primary) subject category. If more than one subject category is assigned, index entries and cross-references under the additional (secondary) subject categories lead the user to the ful1 reference.

**Information retrieval**

By a process of analysis, concepts expressed in a document or describing the subject of a research project are identified by the indexer and transcribed into the components of the indexing language used in the retrieval system.

The indexer should always bear in mind the purpose of indexing, which is the retrieval of information. The subject categories assigned should, therefore, reflect as precisely as possible the main ideas expressed in the documents, in order to locate references relevant to a particular subject quickly and accurately.

**Alphabetical Subject Index**

An expanded Subject Index has been prepared for this revision of the AGRIS/CARIS Categorization Scheme, as follows, to promote the effective use of the scheme by:

a) providing a broad range of lead-in terms
b) establishing a closer relationship between AGROVOC and the Categorization Scheme
c) serving, additionally, as an aid in free text searching.

Agricultural and other thesauri and lists of agricultural terminology have been consulted for potential useful terms.

Whenever an AGROVOC term could be assigned to **one** category, this has been done and the term entered in the new index.

This will assist the indexer in locating the category code for the subject matter indexed, while giving at the same time an indication of the possible AGROVOC terms to be looked up.

Synonyms of the terminology used in the Categorization Scheme and of AGROVOC terms have been introduced in the index.

Compound index entries, consisting of two or more words, have been inverted.

Scope notes, as an explanation of the range of subject matter encompassed, have been introduced.

When necessary, qualifying expressions in the form of an explanatory word or phrase, have been used to differentiate the various meanings of a homograph or homonym.

Note: Although the Alphabetical Subject Index in this Categorization Scheme is an invaluable preliminary aid for determining the appropriate subject categories, for correct and accurate coding, indexers should always refer to the scope descriptions of the subject categories before assigning a code.

**Acknowledgements**

The original scheme for the AGRIS subject categories, FAO-AGRIS—3, March 1974, was prepared by Mr Donald Leatherdale.

The Revision 5 of the AGRIS/CARIS Categorization Scheme has been prepared in close collaboration with the entire AGRIS and CARIS team - special thanks go to Ms Maria Natlacen - , the staff of FAO's Library and Documentation System's Division, AGRIS and CARIS participating centres and many other individual experts.

This revision 5.1 is the machine readable form of Revision 5, prepared at AGRIS Processing Unit under Microsoft Word 7.

# AGRIS/CARIS: SUBJECT CATEGORIES AND SCOPE DESCRIPTIONS

In this Categorization Scheme, agriculture includes fisheries, forestry, food, nutrition and rural sociology. It comprises the production of plants and animals useful to man and the preparation and distribution of these products for man's use.

## A AGRICULTURE IN GENERAL

### *A01 Agriculture - General aspects*

Considerations on agriculture in its wide sense. For specific concepts see appropriate subject categories

### *A50 Agricultural research*

Use for agricultural research administration in general. For research results on specific subjects see appropriate subject categories

Research plans, policies, programmes and projects

Research administration and financing

Research personnel

For:

| | |
|---|---|
| experimental stations and farms, see | C10 |
| market research, see | E70 |
| research methods and techniques, see | U30 |

# B GEOGRAPHY AND HISTORY

## *B10 Geography*

Geographies, maps, atlases, travels pertaining to agriculture

Physical situation in relation to agriculture or forestry; latitude and longitude, altitude, gradient and aspect

For:

| | |
|---|---|
| climate and weather mapping, see | P40 |
| forest mapping, see | K10 |
| geography in relation to animal distribution, see | L60 |
| geography in relation to plant distribution, see | F70 |
| soil mapping, see | P31 |
| water mapping, see | P10 |

## *B50 History*

History of agriculture; add categories for specific subjects as appropriate

Biographical writings in the field of agriculture; add categories for specific subjects as appropriate

# C EDUCATION, EXTENSION AND INFORMATION

## *C10 Education*

Use for education and training (other than extension) in agriculture; add categories for specific subjects as appropriate

Agricultural education plans, policies, programmes and their evaluation

Agricultural teaching and training methods (other than extension)

Agricultural education and training institutions, personnel and equipment, including experimental stations, experimental and model farms

Vocational education and apprenticeship for persons engaged in farming or preparing to enter upon the work of the farm

Nutrition education, training

Veterinary education, training

For:

| | |
|---|---|
| accident prevention education programmes, see | E50 |
| agrarian structure, see | E90 |
| agricultural extension, see | C20 |
| agricultural journalism, see | C20 |
| communication, see | C20 |
| consumer education, see | E73 |
| extension agents, see | C20 |
| health protection education programmes, see | E50 |

## *C20 Extension*

Use for extension, advisory work and demonstration in agriculture; add categories for specific subjects as appropriate

Agricultural extension involving systematic and organized communication with farmers in order to aid them to choose feasible objectives, acquire technical knowledge and skills, identify their problems, formulate solutions, solve the problems identified and evaluate the results

Extension operations and services, including programme planning, organization, management and evaluation of the extension service, methods of communication, advice and guidance to farmers and rural residents, demonstration work

Agricultural extension agents

Communication; development and use of mass media (such as newspapers, broadcasts by radio or television, motion pictures) designed to reach the rural population; agricultural journalism

For:

| | |
|---|---|
| consumer education and protection, see | E73 |
| educational planning, teaching and training techniques in agriculture, see | C10 |

vocational education, see C10

### *C30 Documentation and information*

Use for documentation, library work and information science pertaining to agriculture

Assembling, coding and dissemination of information

Information services, library operations

Data bases as components of information systems

For:

bibliographies, glossaries, etc. on specific subject matters, see appropriate subject categories

communication, mass media, agricultural journalism, see C20

# D ADMINISTRATION AND LEGISLATION

## *D10 Public administration*

Public administration of agriculture in general

Institutional framework of agricultural agencies charged with the administration of governmental functions; for activities of agricultural agencies, see appropriate subject categories

For:

| | |
|---|---|
| development aims, policies, programmes, see | E14 |
| economic administration, see | E10 |
| educational administration, see | C10 |
| farm administration, see | E20 |
| health administration, see | E50 |
| labour administration, see | E12 |
| research administration, see | A50 |
| social administration, see | E50 |

## *D50 Legislation*

Corpus juris, body of law in agriculture of governmental and intergovernmental authorities, use D50 as primary category; add secondary categories for specific subjects

Import, export and customs regulations

Animal and plant quarantine regulations

Patents

Legislation on breeders' rights; registration and patents of plant varieties, animal breeds

Legislative aspects of quality control, sanitary regulations

Legislative aspects of pollution control; toxic residue regulations

Regulations dealing with grading

Water rights

For:

| | |
|---|---|
| labelling, standards, grading, see | E70 |
| feed inspection, hygienic control of feed, see | Q53 |
| food inspection, hygienic control of food, see | Q03 |
| veterinary hygiene, see | L70 |

# E ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY

## *E10 Agricultural economics and policies*

Use for agricultural economics in general

National, regional and international economic policies and programmes

Economic planning, including food situation planning, food requirements, food supply policies, food security

Agricultural economic analysis in general

Econometrics in general: utilization of mathematical forms and statistical techniques in testing and applying economic theories and in solving economic problems; economic models; economic statistics

Economic systems

For:

| | |
|---|---|
| agrarian structure, see | E90 |
| agricultural enterprises, see | E20 |
| aquaculture organization and management, see | E20 |
| aquaculture production, see | M12 |
| consumer economics, see | E73 |
| development economics, see | E14 |
| econometric models of markets, see | E70 |
| economic policies at farm level, see | E20 |
| energy resources management, see | P05 |
| farm organization and management, see | E20 |
| fisheries organization and management, see | E20 |
| fisheries production, see | M11 |
| food aid, see | E14 |
| forestry organization and management, see | E20 |
| forestry production, see | K10 |
| investment and credit, see | E13 |
| labour and employment, see | E12 |
| land economics, see | E11 |
| marketing and distribution, see | E70 |
| nutrition programmes, see | S40 |
| production economics, see | E16 |
| soil resources and management, see | P30 |
| trade: domestic, see | E72 |
| trade: international, see | E71 |
| trade in general, see | E70 |
| water resources and management, see | P10 |

## *E11 Land economics and policies*

Use only for considerations on land adapted and used for agricultural purposes

Economics of land development; land use planning involving formulation of ways and means for the utilization of land; land use surveys for the determination of present use of land

Land capability: suitability of land for agricultural purposes involving a consideration of the risks or difficulties in land use due to physical land conditions

Land classification of natural land types according to their inherent characteristics or their capabilities for man's use

Land assessment: valuation placed upon agricultural property for the purpose of taxation levied by the government; land tax on the value of land exclusive of buildings and other improvements

Land ownership; land tenure: holding of land and the rights that go with such holding and/or operating under the ownership of another; land rent: payment for the use of land

Land aspects of town and country planning, zoning

Agrarian reform: means to improve access to productive resources for all segments of the rural population through the redistribution of landed property and the reorganization of production structure and supporting services; land reform: measures for effecting a more equitable distribution of agricultural land

For:

| | |
|---|---|
| agrarian structure, see | E90 |
| conservation and restoration of natural environment, see | P01 |
| farming systems, see | E20 |
| land as a factor of production, see | E16 |
| recreational use of farm or forest land, see | P01 |
| soil capability, see | P30 |
| soil classification and genesis, see | P32 |
| soil resources and management, see | P30 |
| soil surveys and mapping, see | P31 |

### *E12 Labour and employment*

Labour and employment in relation to agriculture

Labour policies

Labour administration, organization and management

Labour market: factors affecting labour supply and demand; employment, unemployment, labour mobility, labour shortage, manpower needs, labour supply

Efficiency studies, time and motion studies, work studies

Wages and systems of remuneration

Economic aspects of migratory or contract labour; seasonal labour in agriculture required at a particular season usually at harvest time, seasonal unemployment

Labour-management relations involving collective bargaining for the determination of wages and maintenance of contract

Labour unions, trade unions, workers' participation and representation

For:

| | |
|---|---|
| agrarian structure, see | E90 |
| cooperatives in general, see | E40 |
| credit unions, see | E13 |
| production economics, see | E16 |
| rural population, see | E51 |
| social adjustment to migration, see | E50 |
| unemployment insurance, see | E50 |
| vocational training of agricultural labour, see | C10 |

### *E13 Investment, finance and credit*

Finance: the monetary affairs in agricultural operations in general, including circulation of money, granting of credit, making of investments, and provision of banking facilities

Agricultural support subsidies: government grants of money to agricultural enterprises for improvement to farms or farmland with the aim of increasing the production and quality of agricultural commodities

Agricultural credit unions responsible for granting loans to farmers based on an invested capital contributed by the members and divided into shares, each share representing a proportionate ownership in the corporation

For:

| | |
|---|---|
| agrarian structure, see | E90 |
| agricultural economics in general, see | E10 |
| agricultural enterprises, see | E20 |
| agricultural industries, see | E21 |
| household budgets, accounts, see | E80 |
| land taxation, see | E11 |

### *E14 Development economics and policies*

Agricultural development policies, including a planned programme designed to promote modernization and development of agricultural practices with the purpose of improving national living conditions

Development administration pertaining to agriculture: organizational arrangements to implement and coordinate development programmes, which include such activities as project identification, promotion for the financing of agricultural development projects, creation of development areas with favourable terms offered for the establishment of agricultural enterprises, technical and managerial counselling, etc.

Rural development planning, policies, programmes

International cooperation for development; development aid, food aid

Technology transfer, bringing about technological change, evolution, progress, and involving technological development, diffusion of innovations and technological know-how and

adaptation of technology at the national or international level; promotion of technical assistance programmes

For:

| | |
|---|---|
| advisory work for farmers and rural residents, see | C20 |
| agrarian structure, see | E90 |
| community development, see | E50 |
| economic policies, planning and development of the farm, see | E20 |
| extension education, see | C20 |
| food supply policies, see | E10 |
| home industries, handicrafts, see | E80 |
| labour and employment, see | E12 |
| land aspects of town and country planning, zoning, see | E11 |
| land development, see | E11 |
| mathematical methods of project evaluation, see | U10 |
| rural animation, see | E50 |
| social adjustments to settlement, migration, see | E50 |
| village studies, see | E50 |

### *E16 Production economics*

Use for agricultural production economics in general

Productivity policies

Production control: systematic planning, coordinating and directing of production activities to achieve the desired timing for production and adequate quality of goods produced; production targets, standards

Productive capacity: the maximum production which can be achieved from available means of production; scale of production, production growth, overproduction

Production function, input-output function: relationship between product output and input factors of production (land, labour, capital, management); factor costs of production: the costs of land, labour, capital and management which accrue during the production process

Production systems; production statistics

For:

| | |
|---|---|
| agrarian structure, see | E90 |
| agricultural input and output at the farm level, see | E20 |
| agro-industry, see | E21 |
| development economics and policies, see | E14 |
| domestic trade, see | E72 |
| economic policies in general, see | E10 |
| economic statistics in general, see | E10 |
| international trade, see | E71 |
| labour economics and policies, see | E12 |
| land economics and policies, see | E11 |
| organization and management of agricultural enterprises or farms, see | E20 |
| trade in general, see | E70 |

### *E20 Organization, administration and management of agricultural enterprises or farms*

In this category the term farm includes any individual farming, forestry, fisheries and aquacultural enterprise

Planning and development in terms of individual areas of farm activity

Organization, operation and administration of resources of the farm, including the selection of land, crops, livestock, machinery and equipment necessary to conduct a farm business

Agrotourism as an ancillary farm enterprise, non-farm activity carried out on the farm, non-farm income; farm holidays, camping, caravan sites, farm-house accommodation

Systems of farming: private, collective, state farms, contract farming, corporation farming, integrated farming, mixed farming, tenant farming: cash tenancy, share tenancy, etc.

Farm budget: statement of estimated production, gross income, expenses and net income resulting from operating a farm

Farm bookkeeping and accounting; costs and returns of farm operations; cost analysis; input-output analysis of a farm business

Animal, crop, property insurance protection against risk in farm, forestry, aquacultural and fisheries operations; coverage by contract for animal, crop, property losses or damage caused by various types of events

For:

| | |
|---|---|
| agrarian structure, see | E90 |
| agricultural economics in general, see | E10 |
| agricultural industry, see | E21 |
| aquaculture production, see | M12 |
| cooperatives in general, see | E40 |
| cropping patterns and systems, see | F08 |
| farm layout, see | N02 |
| fisheries production, see | M11 |
| forestry production, see | K10 |
| home industries, handicrafts, see | E80 |
| investment, finance and credit, see | E13 |
| labour and employment, see | E12 |
| land economics in general, see | E11 |
| model farms, see | C10 |
| personal accident insurance, see | E50 |
| production economics in general, see | E16 |
| recreational use of farm and forest land, see | P01 |

### *E21 Agro-industry*

In this category the term agro-industry involves the planning and development of farming, forestry, fisheries, aquacultural, food and feed industries, including agricultural input industries

Agro-industry: comprising those industrial activities (excluding processing operations and techniques) directed to the supply for commerce of goods, both food and non-food (e.g. food-stuffs, feed, paper, wood, etc.) manufactured from agricultural products

Planning and development of agricultural industries including forestry, fisheries, aquacultural, food and feed industries, agricultural input industries: agricultural machinery industry (machines, equipment, implements), agro-chemical industry (pesticides, herbicides), fertilizer industry, feed industry, seed industry

Agro-industrial plan: concerning the location of agricultural industries, both large and small, and the factors that influence their location and development, such as available agricultural resources and raw materials to be processed, power, distance to markets, communications, inter-dependence of industries, etc.

For:

| | |
|---|---|
| agricultural input and output at the farm level, see | E20 |
| distribution and marketing of agricultural commodities or products used in agricultural production, see | E70 |
| feed processing and preservation, see | Q52 |
| food processing and preservation, see | Q02 |
| forest seed production and processing, see | K10 |
| home industries and crafts, see | E80 |
| investment, finance and credit, see | E13 |
| labour and employment, see | E12 |
| land economics in general, see | E11 |
| organization and management of agricultural enterprises, see | E20 |
| processing of forest products, see | K50 |
| processing of non-food or non-feed agricultural products, see | Q60 |
| production economics in general, see | E16 |
| seed production and processing (excluding forest seed production and processing), see | F03 |

### *E40 Cooperatives*

General considerations on agricultural cooperatives; for specific aspects of cooperatives, see appropriate subject categories (e.g. economic assessment of domestic marketing cooperatives, see E70; economics of cooperative organization and management of farms, see E20; cooperative organization for the supply of rural housing, see E50; production economics in a cooperative enterprise, see E16; etc.)

Effect of cooperatives on agricultural economics

For:

| | |
|---|---|
| agricultural enterprises, see | E20 |
| credit unions, see | E13 |

### *E50 Rural sociology and social security*

Include information on this subject only when it deals with its impact on agricultural and rural policies, programmes, production and related activities

Rural sociology concerned with the social organization of rural communities, the study of rural life and living conditions and of rural human relationships

Studies of rural areas, villages, towns; rural-urban relationships

Settlement; migration; nomadism

Rural animation: creation and maintenance of mutual understanding among rural people to facilitate modernization; rural environment, community development

Rural communities services, including the planning, financing and implementing of public utilities to enhance community development

Rural housing policies, planning and programmes

Rural medical and health services and personnel; accident prevention education programmes and health protection education programmes; rural social and rehabilitation services, social welfare, social security, pensions, care of the elderly, day-care centres, recreation centres; personal accident insurance, health insurance, life insurance, unemployment insurance

Social structure, social stratification

Social change, social aspects of agrarian reform

Social adjustments to settlement, migration

Social psychology of the farm family; social behaviour, beliefs, customs

Cultural factors, impact of new cultural trends and technology on rural environment, conflict, leadership; human ecology

For:

| | |
|---|---|
| accident prevention devices, see | N01 |
| agrarian reform, see | E11 |
| agrarian structure, see | E90 |
| construction of rural roads, see | N01 |
| consumer economics, see | E73 |
| demographic structure of rural populations, see | E51 |
| economic aspects of migratory or contract labour, see | E12 |
| home industries and crafts, see | E80 |
| housekeeping, see | E80 |
| rural electrification, see | N01 |
| social aspects of human feeding, see | S01 |

### *E51 Rural population*

Include information on this subject only when it deals with its impact on agricultural and rural policies, programmes, production and related activities

Rural population policies, including population control, family planning

Rural population structure, composition, distribution

Rural population dynamics: population increase, decrease, population density, population equilibrium

Censuses, surveys, rural population statistics

For:

| | |
|---|---|
| rural migration, nomadism, settlement, see | E50 |

### *E70 Trade, marketing and distribution*

Do not include information on this subject unless it deals with agricultural trade

Trade: exchange, purchase or sale of agricultural commodities or products used in agricultural production

Marketing including the operations connected with the movement of agricultural commodities or products used in agricultural production from producer to consumer, such as coordination of manufacture, standardization, purchase, sale, sales promotion, advertising, publicizing, shipping, distribution; wholesale and retail marketing; auctioning and other methods of selling; trade fairs, exhibitions

Distribution policies, costs and methods

Supply and demand; market research and analysis, forecasting; econometric models of markets

Price fixing and maintenance

Quality, standard and content labelling; trademarks used to identify marketed products

Grading: classification of agricultural products according to standards of uniformity, size, freedom from blemish or disease, fineness, quality, etc.

For:

| | |
|---|---|
| common guaranteed prices in international trade, see | E71 |
| consumer economics, see | E73 |
| domestic trade, see | E72 |
| feed inspection, see | Q53 |
| food inspection, see | Q03 |
| international trade, see | E71 |
| packaging, see | Q80 |
| processing of agricultural products, see | Q01-Q80 |
| protection of agricultural products, see | J10-J15 |
| storage of agricultural products, see | J10-J15 |
| transport of agricultural products, see | J10-J15 |

### *E71 International trade*

International trade in agricultural commodities or products used in agricultural production and policies affecting such trade, including measures to promote trade, barriers to trade, controls on imports, tariff policies

World market conditions

International trade agreements, common markets, common agricultural policies, common codes of conduct in international trade and trade relations; multi-national arrangements which may involve such objectives as increased agricultural productivity, stabilization of agricultural markets, common guaranteed prices for agricultural products, unrestricted trade between member states, common trading systems with non-member countries, etc.

For:

| | |
|---|---|
| customs regulations, see | D50 |
| domestic trade, see | E72 |
| import and export regulations, see | D50 |
| international trade law, see | D50 |

### *E72 Domestic trade*

Domestic trade involving the operations connected with the movement of agricultural commodities or products used in agricultural production from producer to consumer within a country

Home trade, inland trade

For:

| | |
|---|---|
| consumer economics, see | E73 |
| distribution and marketing of agricultural products, see | E70 |
| international trade, see | E71 |
| trade in general, see | E70 |

### *E73 Consumer economics*

Use for information on agricultural policies and trends which have an impact on the consumer

Consumer economics including programmes for consumer protection, consumer education; consumer advisory service

Consumer goods: products used primarily for individual consumption

Consumer behaviour, purchasing habits, consumer surveys

For:

| | |
|---|---|
| eating habits, food preferences, see | S01 |
| home economics, see | E80 |
| market research, see | E70 |

### *E80 Home economics, industries and crafts*

Home economics concerning the practice of domestic management and household skills necessary for the creation and maintenance of a healthy family environment

Housekeeping; family living and household management practices (cooking, sewing, budgeting, purchasing for the home, household accounts, etc.); care of children in the home

Food in the home; preparation of meals and cooking of food (excluding recipes), home food storage, home food preservation

Home industries, cottage industries, handicrafts (woodwork, leather, textile, cordage, etc.): domestic system of manufacturing or processing articles in the home to supplement income from agricultural holdings

For:

| | |
|---|---|
| agricultural enterprises, see | E20 |
| consumer protection, see | E73 |
| diets, see | S30 |
| eating habits, see | S01 |
| food preferences, see | S01 |
| health and welfare, see | E50 |
| legislation for consumer protection, see | D50 |
| market research, see | E70 |
| public health aspects of food, see | Q03 |
| purchasing habits, see | E73 |
| rural sociology, see | E50 |

### *E90 Agrarian structure*

In this category the term agrarian structure involves a multidisciplinary approach to agriculture, covering works which deal simultaneously with technical, economic and sociological aspects

Analysis of agricultural practices and assessment of the adequacy of available technologies with regard to the requirements and constraints of the bio-ecological and socio-cultural environment on land use systems: crops, forestry and animal husbandry

Analysis of evolution of farms; technico-economic monitoring of farm evolution characteristics to assess aptitudes, technical, economic and sociological constraints, and the degree of appropriateness of technical innovations

Inter-relations among the physical, biological, economic and sociological components of agrarian systems

Study of territory in relation to the farm and the socio-economic factors prevailing in a region; collective organization of territory, rural activities and agricultural practices

Utilization patterns of rural areas by various agrarian production systems and the evolution of natural environments according to their use

Diffusion of technical criteria and methodological processes in agrarian systems based on a close relationship between research and practice

For:

| | |
|---|---|
| agrarian reform, see | E11 |
| agricultural credits, see | E13 |
| agricultural economics in general, see | E10 |
| development economics and policies, see | E14 |
| farming systems, see | E20 |

| | |
|---|---|
| labour and employment, see | E12 |
| land economics and policies, see | E11 |
| model farms, see | C10 |
| production economics in general, see | E16 |
| rural sociology in general, see | E50 |
| systems of farming; private, collective, state farms, contract farming, tenant farming, etc., see | E20 |

# F PLANT SCIENCE AND PRODUCTION

## *F01 Crop husbandry*

See also: F62 for Plant growth and development physiology

General crop husbandry: the cultivation or production of plants (excluding forest trees and aquatic plants)

Crop forecasting

Horticulture and gardening: cultivation of gardens and orchards, including the growing of vegetables, fruit culture, viticulture, lawn management, ornamental plants

Field crop production, forage crop production, pasture and range management

Plant cultivation techniques: pruning, crown thinning; potting; transplanting; nursery practice; spacing; seed sowing, sowing date, sowing depth, sowing rates

Special methods of plant cultivation: use of artificial light, heat, soil warming, etc.; protected cultivation: green house, hot house, under transparent film, etc.; hydroponics, sand cultures; etc.

Methods for plant growth control (except weeds): retardation, inhibition; flowering, artificial promotion of flowering; fruit formation, artificial ripening, etc.

Plant response to cultivation techniques

Crop yields: the quantity or aggregate of products resulting from crop husbandry; harvesting of crops

For:

| | |
|---|---|
| aquatic plant production, see | M12 |
| cropping patterns and systems, see | F08 |
| distribution and marketing of agricultural products, see | E70 |
| farm management, see | E20 |
| fertilizing, see | F04 |
| forest seed production, see | K10 |
| forest tree production, see | K10 |
| forest tree propagation, see | K10 |
| handling of plant products, see | J11 |
| irrigation, see | F06 |
| landscape management, see | P01 |
| plant breeding, see | F30 |
| plant physiology and biochemistry, see | F60-F63 |
| plant propagation (excluding forest tree propagation), see | F02 |
| plant protection, see | H01-H60 |
| protection of plant products, see | J11 |
| seed production (excluding forest seed production), see | F03 |
| seedbed preparation, see | F07 |
| soil cultivation, see | F07 |
| transport and storage of plant products, see | J11 |
| weed control, see | H60 |

### *F02 Plant propagation*

Techniques of plant propagation (excluding forest tree propagation)

Propagation: grafting; budding; cell and meristem culture; dividing; layering; cutting; cloning, etc. (excluding forest tree cutting, cloning, etc.)

For:

| | |
|---|---|
| forest seed production and processing, see | K10 |
| forest tree propagation, see | K10 |
| plant genetics and breeding, see | F30 |
| plant reproduction physiology, see | F63 |
| seed production and processing (excluding forest seed production and processing), see | F03 |
| seed sowing, sowing date, sowing depth, sowing rates, see | F01 |

### *F03 Seed production and processing*

Production of seed for propagation purposes and processing of seeds (excluding forest seed production and processing)

Seed treatment: cleaning, inoculation, pelleting, scarification, stratification, testa chipping, etc.; seed testing, trials; seed certification; seed quality control

Germinability

Seed storage

For:

| | |
|---|---|
| forest seed production and processing, see | K10 |
| forest tree propagation, see | K10 |
| plant propagation, see | F02 |
| seed germination, see | F62 |
| seed industry, see | E21 |

### *F04 Fertilizing*

Application of organic and inorganic fertilizers; utilization of wastes, sewage, sludge as fertilizers

Composition and properties of fertilizers and manures

Plant response to fertilizers

Soil conditioners

For:

| | |
|---|---|
| mineral deficiencies of plants, see | H50 |
| nutritional requirements of plants, see | F61 |
| soil conservation, see | P36 |
| soil fertility, see | P35 |

### *F06 Irrigation*

Irrigation: artificial watering of soil for the purpose of plant production

Irrigation methods, systems and projects: furrow irrigation, overhead irrigation, subsurface irrigation, trickle irrigation, etc.

Cultivation under irrigation

Plant response to irrigation

For:

| | |
|---|---|
| drainage, see | P11 |
| irrigation equipment, see | N20 |
| soil conservation, see | P36 |
| soil permeability, see | P33 |
| soil reclamation, see | P36 |
| soil-water relationship, see | P33 |
| water conservation and management, see | P10 |
| water quality, see | P10 |
| water supply, see | P10 |

### *F07 Soil cultivation*

Preparation of soil for crop husbandry: tillage, harrowing, rolling, ploughing, fallowing, mulching, sterilization, soil disinfection (soil hygiene), burning, seedbed preparation, etc.

For:

| | |
|---|---|
| crop husbandry, see | F01 |
| cropping systems, see | F08 |
| fallow systems, see | F08 |
| fertilizing, see | F04 |
| prescribed or controlled burning in forests, see | K10 |
| soil conservation, see | P36 |
| soil improvement, see | F04 |
| tillage equipment, see | N20 |
| weed control, see | H60 |

### *F08 Cropping patterns and systems*

See also: K10 for Forestry production

Sequence in which crops are grown and spatial arrangements of crops and fallow and interactions with livestock activities

Single cropping, multiple cropping, intercropping, catch cropping, intensive cropping, exhaustive cropping

Rotational cropping systems: different crops grown in succession on the same land in a fixed sequence chiefly to preserve the productive capacity of the soil

Shifting cultivation referring to cultivation of a non-settled nature, involving the production of crops for subsistence followed by vegetable fallow

Fallow systems: sequences of crop years and fallow years

Agro-forestry, involving agro-silvicultural systems (forest crops associated with agricultural crops), silvo-pastoral systems (forest crops associated with grazing pastures), or agro-silvo-pastoral systems (simultaneous combination of forestry with cropping and grazing)

Dry farming; desert, arid-zone farming

Organic farming, biodynamic farming

For:

| | |
|---|---|
| agrarian systems, see | E90 |
| animal husbandry, see | L01 |
| crop husbandry, see | F01 |
| cultivation under irrigation, see | F06 |
| farming systems, see | E20 |
| forest grazing, see | L02 |
| hydroponics and other special methods of plant cultivation, see | F01 |
| range and grassland management, see | F01 |
| soil cultivation, see | F07 |

### *F30 Plant genetics and breeding*

Genetics of usefu1 plants (including forest trees and aquatic plants) and its application in the production and development of improved strains and cultivars

New varieties of plants

Breeding for resistance to pests, diseases and other factors; add categories for specific subjects as appropriate

Breeding programmes, methods and techniques; selection, crossbreeding, hybridization, induced mutation

Exploration to collect plants for the purpose of breeding and development of new crops for agricultural uses

Introduction of wild plants into cultivation

Plant germplasm sources and gene banks

For:

| | |
|---|---|
| genetics of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| hereditary and genetic disorders in plants, see | H50 |
| legislative aspects of breeders' rights, see | D50 |
| plant reproduction physiology, see | F63 |
| plant resistance to climate, extreme conditions, see | H50 |
| plant taxonomy, see | F70 |
| rearing of organisms used in pest and disease control, see | H10, H20, L72, |

| | |
|---|---|
| | L73 |
| weed genetics, see | H60 |

### *F40 Plant ecology*

Useful plants (other than aquatic) in relation to their environment; ecology, phenology, environmental biology, external influences on biological processes in useful plants; indicator plants

Forest ecology

For:

| | |
|---|---|
| aquatic plant ecology, see | M40 |
| climatic influences, see | P40 |
| conservation of plants and vegetation, plant wildlife management, botanical gardens, arboreta, see | P01 |
| ecology of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| national parks, see | P01 |
| plant hardiness, see | H50 |
| rhizosphere influence, see | P34 |
| weed ecology, see | H60 |

### *F50 Plant structure*

Anatomy, cytology, histology, ultrastructure and morphology of useful plants (including forest trees and aquatic plants)

Wood structure

Plant habit: general appearance of a plant

For:

| | |
|---|---|
| plant physiology, see | F60-F63 |
| structure of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| weed structure, see | H60 |

### *F60 Plant physiology and biochemistry*

Do not include documents in which plants are dealt with as experimental organisms for theoretical, physiological or biochemical research

General aspects of the physiology and biochemistry of useful plants (including forest trees and aquatic plants): circulation and emission of liquids and gases, plant water relations, exudation of water, transpiration, respiration, etc.

Chemical composition of useful plants, constituents; chemical analysis of plants

For:

| | |
|---|---|
| effects of environment on biological processes in plants, see | F40 |
| immunity: plant resistance to infection, see | H20 |
| immunity: plant resistance to diseases, see | H20 |
| metabolism relating to nutrition, see | F61 |
| physiological disorders of plants, see | H50 |
| physiology and biochemistry of organisms used in pest and disease control, see | H10, H20 L72, L73 |
| plant growth and development physiology, see | F62 |
| plant hardiness, resistance to extreme conditions, see | H50 |
| plant nutrition physiology, see | F61 |
| plant reproduction physiology, see | F63 |
| plant response to cultivation techniques, see | F01 |
| plant response to fertilizers, see | F04 |
| plant response to irrigation, see | F06 |
| weed physiology, see | H60 |

### *F61 Plant physiology - Nutrition*

Nutritional requirements of useful plants (including forest trees and aquatic plants), foliar diagnosis, absorption and assimilation of nutrients, photosynthesis, reserve formation, secretion, physiological aspect of symbiosis, metabiosis, metabolism, etc

For:

| | |
|---|---|
| application and effects of fertilizers, see | F04 |
| mycorrhiza, rhizobia and other micro-organisms as related to plant nutrition, see | P34 |
| nutritional disorders of plants, see | H50 |
| nutritional physiology in organisms used in pest and disease control, see | H10, H20, L72, L73 |

### *F62 Plant physiology - Growth and development*

See also: F01 for Methods for plant growth control

Growth and development of useful plants (including forest trees and aquatic plants)

Germination, morphogenesis, organ formation and development, seed formation and development, cicatrization, abscission, plant senescence, etc., post-harvest physiology

For:

| | |
|---|---|
| germinability of seeds, see | F03 |
| growth and development of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| weed growth, see | H60 |

### *F63 Plant physiology - Reproduction*

Reproductive mechanisms in useful plants (including forest trees and aquatic plants): formation of germ cells and spores, formation of sex cells, pollination, parthenogenesis, fructification, apogamy, apospory, vegetative reproduction, etc.

For:

| | |
|---|---|
| forest tree propagation, see | K10 |
| plant genetics and breeding, see | F30 |
| plant propagation, see | F02 |
| reproduction physiology of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| weed reproduction, see | H60 |

### *F70 Plant taxonomy and geography*

Classification, identification, nomenclature and phylogeny or evolution of useful plants (including forest trees and aquatic plants)

Natural distribution of plants; flora; plant checklists

For:

| | |
|---|---|
| plant collection and introduction, see | F30 |
| plant ecology: aquatic, see | M40 |
| terrestrial, see | F40 |
| plant genetics, see | F30 |
| plant variation, see | F30 |
| soil flora, see | P34 |
| taxonomy of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| weed taxonomy, see | H60 |

# H PLANT PROTECTION

## *H01 Protection of plants - General aspects*

General considerations on factors injurious to plants (including forest trees and aquatic plants) and measures and materials for their control or alleviation

Plant protection services and organizations

For:

| | |
|---|---|
| environmental damage by pesticides, see | T01 |
| pests of plants, see | H10 |
| phytotoxic effects of pesticides, see | H50 |
| plant diseases, see | H20 |
| protection of plant products, see | J11 |
| rearing of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| residues of pesticides in air, soil, water, see | T01 |
| residues of pesticides in feeds, see | Q53 |
| residues of pesticides in foods, see | Q03 |
| toxic residue regulations, see | D50 |
| toxicity of pesticides: to humans, see | T10 |
| to useful animals, see | L74 |
| to useful plants, see | H50 |
| weeds and weed control, see | H60 |
| wood preservation, see | J12 |

## *H10 Pests of plants*

Do not include information in which pests of plants are used for the study of general biological processes, e.g. genetics, and which does not have a direct bearing on their control or on the injury or loss to crops caused by these organisms

Pests of useful plants (including forest trees and aquatic plants) and the damage they cause

Insects, mites, nematodes, protozoans, molluscs, birds, mammals, etc., injurious to useful plants, or as vectors of pathogens of plants

Plant pest control materials, methods and programmes including cultural, chemical, physical, mechanical, integrated and biological control); rearing of organisms used in plant pest control; genetics, ecology, structure, physiology, biochemistry and taxonomy of control organisms

Plant pest surveys

Immunity: plant resistance to pests, pest resistance to pesticides

Ecology, structure, physiology, biochemistry and taxonomy of plant pests

For:

| | |
|---|---|
| breeding for resistance to pests of plants, see | F30 |
| physiological and genetic plant disorders, see | H50 |
| phytotoxic effects of pesticides, see | H50 |
| plant diseases, see | H20 |

| | |
|---|---|
| plant pest control equipment, see | N20 |
| plant protection in general, see | H01 |
| plant quarantine regulations, see | D50 |
| properties and examination of plant pathogens, disease-producing organisms, see | H20 |
| protection of plant products, see | J11 |
| toxicity of pesticides to humans, see | T10 |
| toxicity of pesticides to useful animals, see | L74 |
| toxicity of pesticides to useful plants, see | H50 |
| weeds and weed control, see | H60 |
| wood preservation, see | J12 |

### *H20 Plant diseases*

Plant pathology; diseases of useful plants (including forest trees and aquatic plants) and their causal organisms: bacteria, fungi, mycoplasma, viruses, etc.

Plant disease control materials, methods and programmes (including cultural, chemical, physical, mechanical, integrated and biological control); rearing of organisms used in plant disease control; genetics, ecology, structure, physiology, biochemistry and taxonomy of control organisms

Plant disease surveys

Immunity: plant resistance to infection; pathogen resistance to pesticides

Properties and examination of plant pathogens, disease-producing organisms

For:

| | |
|---|---|
| breeding for resistance to plant diseases, see | F30 |
| deficiency diseases in plants, see | H50 |
| nutritional disorders in plants, see | H50 |
| pests of plants, see | H10 |
| physiological and genetic disorders, see | H50 |
| plant disease control equipment, see | N20 |
| plant quarantine regulations, see | D50 |
| protection of plant products, see | J11 |
| toxicity of pesticides to humans, see | T10 |
| toxicity of pesticides to useful animals, see | L74 |
| toxicity of pesticides to useful plants, see | H50 |
| weeds and weed control, see | H60 |
| wood preservation, see | J12 |

### *H50 Miscellaneous plant disorders*

Physiological plant disorders in general (including forest trees and aquatic plants), nutritional disorders, genetic disorders in useful plants, deficiency diseases

Injuries to useful plants (but not forest trees) caused by atmospheric factors (such as heat, cold, flooding, wind), fire, equipment and other physical agents

Materials, methods and programmes for prevention and control of plant disorders and plant injuries

Phytotoxicity, toxic effects of substances poisonous to plants

Plant hardiness; resistance to climate, extreme conditions

For:

| | |
|---|---|
| breeding for resistance to climate, extreme conditions, see | F30 |
| damage to plant products, see | J11 |
| forest fire control, see | K70 |
| forest injuries and protection, see | K70 |
| weed competition, see | H60 |

### *H60 Weeds and weed control*

Weeds (including forest and aquatic weeds) and parasitic higher plants; their deleterious effects, control, occurrence and distribution

Plants poisonous to man and useful animals

Resistance to weed competition

Ecology, structure, physiology, biochemistry and taxonomy of weeds

For:

| | |
|---|---|
| culture and harvesting of seaweeds, see | M12 |
| environmental damage by herbicides, see | T01 |
| residues of herbicides in air, soil, water, see | T01 |
| residues of herbicides in feeds, see | Q53 |
| residues of herbicides in foods, see | Q03 |
| toxic effects of poisonous plants on useful animals, see | L74 |
| toxicity of herbicides to humans, see | T10 |
| toxicity of herbicides to useful animals, see | L74 |
| toxicity of herbicides to useful plants, see | H50 |

# J POSTHARVEST TECHNOLOGY

## *J10 Handling, transport, storage and protection of agricultural products*

Handling, transport, storage and protection of agricultural products in general

Methods for storage (excluding storage structures) of agricultural products in general: bulk storage, central storage, cold storage, controlled atmosphere storage, farm storage, off-farm storage, refrigerated storage, underground storage, etc.

Farm storage and warehouse management

Damage and losses to agricultural products in general during harvesting and postharvest phases (handling, storage, transport, etc.), and remedial measures for their prevention and control

Pests and disease organisms injurious to agricultural products in general; their occurrence and control

Damage to agricultural products in general caused by atmospheric factors, fire, equipment and other physical agents; its prevention and control

For:

| | |
|---|---|
| feed processing and preservation, see | Q52 |
| feed spoilage, see | Q53 |
| food processing and preservation, see | Q02 |
| food spoilage, see | Q03 |
| handling and transport equipment, see | N20 |
| handling, transport, storage and protection of animal products, see | J13 |
| handling, transport, storage and protection of fisheries and aquacultural products, see | J14 |
| handling, transport, storage and protection of forest products, see | J12 |
| handling, transport, storage and protection of non-food or non-feed agricultural products, see | J15 |
| handling, transport, storage and protection of plant products, see | J11 |
| harvesting of animal products, see | L01 |
| harvesting of aquacultural products, see | M12 |
| harvesting of fisheries products, see | M11 |
| harvesting of forest products, see | K10 |
| harvesting of plant products, see | F01 |
| primary processing of non-food or non-feed agricultural products, see | Q60 |
| processing of forest products, see | K50 |
| storage structures, see | N10 |

## *J11 Handling, transport, storage and protection of plant products*

Handling, transport, storage and protection of plant products (other than aquatic plant products, forest products and non-food or non-feed plant products)

Storage methods for plant products (excluding forest, aquatic plant and non-food or non-feed plant products)

Storage methods for processed food and feed of plant origin; effects of storage conditions on food and feed quality: temperature, controlled atmosphere, etc.; shelf life

Damage and losses to plant products (excluding forest products, aquatic plant products and non-food or non-feed plant products) during harvesting and postharvest phases (handling, storage, transport, etc.), and remedial measures for their prevention and control

Pests and disease organisms injurious to plant products (excluding forest, aquatic plant and non-food or non-feed plant products); their occurrence and control

Damage to plant products (excluding forest, aquatic plant and non-food or non-feed plant products) caused by atmospheric factors, fire, equipment and other physical agents; its prevention and control

For:

| | |
|---|---|
| feed processing and preservation, see | Q52 |
| feed spoilage, see | Q53 |
| food processing and preservation, see | Q02 |
| food spoilage, see | Q03 |
| forest seed processing, see | K10 |
| handling, transport, storage and protection of aquatic plant products, see | J14 |
| handling, transport, storage and protection of forest products, see | J12 |
| handling, transport, storage and protection of non-food or non-feed plant products, see | J15 |
| harvesting of aquatic plant products, see | M12 |
| harvesting of forest products, see | K10 |
| harvesting of plant products (excluding aquatic plant products), see | F01 |
| primary processing of non-food or non-feed plant products, see | Q60 |
| processing of forest products, see | K50 |
| seed processing (excluding forest seed processing), see | F03 |
| seed storage, see | F03 |

### *J12 Handling, transport, storage and protection of forest products*

Handling, transport, storage and protection of forest products

Transport of forest products in the forest, to the mill, floating, etc.

On-site storage and other storage methods for forest products

Damage and losses to forest products during harvesting and postharvest phases (handling, storage, transport, etc.), and remedial measures for their prevention and control

Wood preservation

Pests and disease organisms injurious to forest products; their occurrence and control

Damage to forest products caused by atmospheric factors, fire, equipment and other physical agents; its prevention and control

For:

| | |
|---|---|
| forest injuries and protection, see | K70 |

| | |
|---|---|
| forest seed processing, see | K10 |
| logging and other forms of harvesting, see | K10 |
| processing of forest products, see | K50 |

### *J13 Handling, transport, storage and protection of animal products*

Handling, transport, storage and protection of animal products (other than fisheries products, aquatic animal products, and non-food or non-feed animal products)

Handling and transport of domestic animals

Storage methods for animal products (excluding fisheries, aquatic animal, and non-food or non-feed animal products)

Storage methods for processed food and feed of animal origin; effects of storage conditions on food and feed quality: temperature, controlled atmosphere, etc.; shelf life

Damage and losses to animal products (excluding fisheries, aquatic animal, and non-food or non-feed animal products) during harvesting and postharvest phases (handling, storage, transport, etc.), and remedial measures for their prevention and control

Pests and disease organisms injurious to animal products (excluding fisheries, aquatic animal, and non-food or non-feed animal products); their occurrence and control

Damage to animal products (excluding fisheries, aquatic animal, and non-food or non-feed animal products) caused by atmospheric factors, fire, equipment and other physical agents; its prevention and control

For:

| | |
|---|---|
| feed processing and preservation, see | Q52 |
| feed spoilage, see | Q53 |
| food processing and preservation, see | Q02 |
| food spoilage, see | Q03 |
| handling, transport, storage and protection of fisheries and aquatic animal products, see | J14 |
| handling, transport, storage and protection of non-food or non-feed animal products, see | J15 |
| harvesting of animal products (excluding aquatic animal products), see | L01 |
| harvesting of aquatic animal products, see | M12 |
| harvesting of fisheries products, see | M11 |
| milking, see | L01 |
| primary processing of non-food or non-feed animal products, see | Q60 |
| slaughtering, see | L01 |

### *J14 Handling, transport, storage and protection of fisheries and aquacultural products*

Handling, transport, storage and protection of fisheries and aquacultural products (excluding non-food or non-feed fisheries and aquacultural products)

Unloading and other quayside operations

Storage methods for fresh fisheries products and aquacultural products (excluding non-food or non-feed fisheries and aquacultural products); effects of storage conditions

Storage methods for processed food and feed from fisheries and aquacultural products; effects of storage conditions on food and feed quality: temperature, controlled atmosphere, etc.; shelf life

Damage and losses to fisheries and aquacultural products (excluding non-food or non-feed fisheries and aquacultural products) during harvesting and postharvest phases (handling, storage, transport, etc.), and remedial measures for their prevention and control

Pests and disease organisms injurious to fisheries and aquacultural products (excluding non-food or non-feed fisheries and aquacultural products); their occurrence and control

Damage to fisheries and aquacultural products (excluding non-food or non-feed fisheries and aquacultural products) caused by atmospheric factors, fire, equipment and other physical agents; its prevention and control

For:

| | |
|---|---|
| feed processing and preservation, see | Q52 |
| feed spoilage, see | Q53 |
| food processing and preservation, see | Q02 |
| food spoilage, see | Q03 |
| handling, transport, storage and protection of non-food or non-feed fisheries and aquacultural products, see | J15 |
| harvesting of aquacultural products, see | M12 |
| harvesting of fisheries products, see | M11 |
| primary processing of non-food or non-feed fisheries and aquacultural products, see | Q60 |

### *J15 Handling, transport, storage and protection of non-food or non-feed agricultural products*

Handling, transport, storage and protection of non-food or non-feed plant products (excluding forest products): fibres, tobacco, cotton, cut flowers, etc.

Handling, transport, storage and protection of non-food or non-feed animal products: wool, fur, hides, leather, silk, etc.

Storage methods for non-food or non-feed agricultural products (excluding forest products); effects of storage conditions

Damage and losses to non-food or non-feed agricultural products (excluding forest products) of plant and animal origin during harvesting and postharvest phases (handling, transport, storage, etc.), and remedial measures for their prevention and control

Pests and disease organisms injurious to non-food or non-feed agricultural products (excluding forest products); their occurrence and control

Damage to non-food or non-feed agricultural products (excluding forest products) caused by atmospheric factors, fire, equipment and other physical agents; its prevention and control

For:

| | |
|---|---|
| handling, transport, storage and protection of forest products, see | J12 |
| harvesting of forest products, see | K10 |
| harvesting of non-food or non-feed animal products, see | L01 |

| | |
|---|---|
| harvesting of non-food or non-feed aquacultural products, see | M12 |
| harvesting of non-food or non-feed fisheries products, see | M11 |
| harvesting of non-food or non-feed plant products, see | F01 |
| primary processing of non-food or non-feed agricultural products, see | Q60 |

### *K01 Forestry - General aspects*

Considerations on forestry in general

Forest influence: the effect upon water, soil, climate and health resulting from the presence of forests

For:

| | |
|---|---|
| conservation of forest plant or animal species, see | P01 |
| conservation of forest recreation land, see | P01 |
| forest ecology, see | F40 |
| forest engineering, see | K11 |
| forest environment conservation, see | P01 |
| forestry labour and employment, see | E12 |
| forestry management, see | E20 |
| forestry production, see | K10 |
| recreational use of forest land, see | P01 |

### *K10 Forestry production*

See also: F08 for Agro-forestry

Forest operations (including felling and tree extraction); methods for forestry production in general, experimental forests, private forests, farm woodlands, etc.

Forest mensuration: systems and units of measurement for stem dimensions and volume of trees, stands, forests and timber; increment and yield tables; computer models of forest stands

Assessment of site quality; forest mapping, surveys and reconnaissance

Urban forestry; shelterbelts and windbreaks

Care of forests for extensive silviculture; intensive silviculture methods

Silvicultural systems, silvicultural rotation, thinning, clear-felling system, selection system, timber stand improvement, control of growth and composition of forests, formation of stands, high forest systems, etc.

Forest tree propagation: renewal by self-sown seeds or by vegetative means, coppicing, natural regeneration, regeneration by cutting or felling, etc.; renewal by sowing or planting, artificial regeneration, afforestation and reforestation, forest nurseries, container grown tree seedlings, direct sowing, under-planting, advance planting, etc.

Prescribed or controlled burning in forests

Forest plantations; shade and ornamental and Christmas tree production

Forest seed production and processing

Forest yields: the quantity or aggregate of products resulting from forestry production; logging and other forms of harvesting forest products

For:

| | |
|---|---|
| diseases of forest trees, see | H20 |
| distribution and marketing of forest products, see | E70 |
| drainage, see | P11 |

| | |
|---|---|
| forest ecology, see | F40 |
| forest engineering, see | K11 |
| forest fires, see | K70 |
| forestry machinery and equipment, see | N20 |
| grading, standards, labelling of forest products, see | E70 |
| irrigation, see | F06 |
| organization, administration and management of forestry enterprises, see | E20 |
| pests of forest trees, see | H10 |
| physiology and biochemistry of forest trees, see | F60-F63 |
| protection of forest products, see | J12 |
| storage of forest products, see | J12 |
| structure of forest trees, see | F50 |
| surveying methods, see | U40 |
| taxonomy, nomenclature and biogeography of forest trees, see | F70 |
| transport of forest products, see | J12 |
| tree breeding, see | F30 |
| tree genetics, see | F30 |
| weed control, see | H60 |
| wood preservation, see | J12 |

### *K11 Forest engineering*

Forest engineering, site clearing, grading, slope stability, etc.

Forest roads

For:

| | |
|---|---|
| forestry machinery and equipment, see | N20 |
| rural roads, see | N01 |
| transport of forest products, see | J12 |

### *K50 Processing of forest products*

Primary and secondary processing and properties of forest products and by-products

Wood: timber and lumber; seasoning and timberyard practices; woodworking, sawing, planing, milling, joining, etc.; fire testing, treatment for fire resistance, etc.; composite and reconstituted wood (plywood, veneers, fibre-board, hardboard, chipboard, etc.)

Pulp and paper: paper, packaging materials, insulation materials, etc. made from pulp

Chemical forest products and distillates: chemistry of cellulose and lignins; oleoresins, resins, turpentines, tars, pitch, etc.; other products such as gums, oils, waxes, dyestuffs, etc.

Forest by-products: production of products from bark, sawdust, chips, forest tree leaves and branches, etc.; indirect products such as osiers, canes, etc.

For:

| | |
|---|---|
| distribution and marketing of forest products, see | E70 |

| | |
|---|---|
| economics of forest products industries, see | E21 |
| grading, standards, labelling, see | E70 |
| preservation and protection of wood products, see | J12 |
| wood structure, see | F50 |

### *K70 Forest injuries and protection*

General techniques of forestry protection

Injuries (except pests and diseases) caused by man, atmospheric factors, equipment, toxic chemicals and other physical agents

Materials, methods and programmes for prevention and control of forest injuries

Forest fires: predisposing factors and causes, fire danger rating, fire prevention

Techniques and programmes for forest fire detection and control

Atmospheric effects on fires

For:

| | |
|---|---|
| controlled burning, see | K10 |
| diseases of forest trees and their control, see | H20 |
| forest conservation, see | P01 |
| forest fire detection and control equipment, see | N20 |
| forest weeds, parasitic plants of forest trees and their control, see | H60 |
| pests of forest trees and their control, see | H10 |
| physiological disorders of forest trees, see | H50 |
| protection of forest products, see | J12 |

# L ANIMAL SCIENCE, PRODUCTION AND PROTECTION

## *L01 Animal husbandry*

General animal husbandry; production and care of useful animals (excluding aquatic animals and organisms used in pest and disease control)

Training, testing, sexing, branding and other means of identifying, exhibiting, judging

Animal rearing methods (other than animal aquaculture and rearing of organisms used in pest and disease control)

Husbandry methods: barrier, battery, free range, extensive, intensive, large scale, floor, deep litter; overwintering, shading, etc.

Livestock production: asses, horses, cattle, buffaloes, camels, goats, swine, sheep, etc.; meat production

Dairy farming, milking, etc.

Aviculture: poultry rearing, egg production, poultry meat production

Apiculture: beekeeping, rearing of honey-bees, hive management, honey production

Sericulture: rearing of silkworms, silk production

Rearing of other animals, such as fur animals, etc.

Slaughterhouse practices

Yields: the quantity or aggregate of products resulting from animal husbandry, slaughter weight, carcass weight; harvesting of animal products

For:

| | |
|---|---|
| animal aquaculture, see | M12 |
| animal breeding, see | L10 |
| animal feeding (excluding feeding of aquatic animals and organisms used in pest and disease control), see | L02 |
| animal housing structures, see | N10 |
| animal physiology and biochemistry, see | L50-L53 |
| animal protection, see | L70-L74 |
| aquatic animal feeding, see | M12 |
| aquatic animal production, see | M12 |
| distribution and marketing of animal products, see | E70 |
| farm management, see | E20 |
| feeding of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| fisheries production, see | M11 |
| handling, transport, storage and protection of animal products, see | J13 |
| rearing of organisms used in pest and disease control, see | H10, H20, L72, L73 |

## *L02 Animal feeding*

See also: L51 for Animal nutrition physiology

Feeding techniques of useful animals (excluding aquatic animals and organisms used in pest and disease control)

Fattening; regimes, diets

Effects of feeding

Feeding systems: individual feeding; forced feeding; parenteral feeding; rations; restricted feeding, feedlots; unrestricted feeding: browsing, grazing: forest grazing, mixed grazing, paddock grazing, rotational grazing, strip grazing, tethered grazing

For:

| | |
|---|---|
| effects of animal feeding on food quality, see | Q04 |
| feed composition, see | Q54 |
| feed contamination and toxicology, see | Q53 |
| feed processing, see | Q52 |
| feed technology, see | Q51 |
| feeding of aquatic animals, see | M12 |
| feeding of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| nutritive value of feed, see | Q54 |
| range and grassland management, see | F01 |
| silvo-pastoral system, see | F08 |

### *L10 Animal genetics and breeding*

Genetics of useful aquatic and terrestrial animals (excluding organisms used in pest and disease control) and its application in the production and development of improved breeds and varieties; pedigrees

New breeds of animals

Breeding for resistance to pests, diseases and other factors; add categories for specific subjects as appropriate

Breeding programmes, methods and techniques: selection, line breeding, in-breeding, crossbreeding, hybridization, artificial insemination, etc.

Germplasm banks

For:

| | |
|---|---|
| animal reproduction physiology, see | L53 |
| animal resistance to climate, extreme conditions, see | L74 |
| animal taxonomy, see | L60 |
| genetics of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| hereditary and genetic disorders in animals, see | L74 |
| legislative aspects of animal breeders' rights, see | D50 |
| rearing of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| registration of animal breeds, see | D50 |

### *L20 Animal ecology*

Useful animals (excluding aquatic animals and organisms used in pest and disease control) in relation to their environment; ecology; phenology

Environmental biology; effects of external influences on biological processes in useful terrestrial animals

Animal behaviour; communication; instinct; learning

Habitat; animal population structure

Climatic seasonal factors: hibernation, migration

Community life, colonies, symbiosis, etc.

For:

| | |
|---|---|
| animal resistance to climate, extreme conditions, see | L74 |
| aquatic animal ecology, see | M40 |
| conservation of animals, animal wildlife management, game reserves and surveys, game hunting and sport fishing, see | P01 |
| ecology of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| pest ecology, see | H10, L72 |

### *L40 Animal structure*

Anatomy, cytology, histology, ultrastructure and morphology of useful aquatic and terrestrial animals (excluding organisms used in pest and disease control)

For:

| | |
|---|---|
| animal metamorphosis, see | L52 |
| animal physiology, see | L50-L53 |
| pest structure, see | H10, L72 |
| structure of organisms used in pest and disease control, see | H10, H20, L72, L73 |

### *L50 Animal physiology and biochemistry*

Do not include documents in which animals are dealt with as experimental organisms for theoretical, physiological or biochemical research

General aspects of physiology and biochemistry of useful aquatic and terrestrial animals (excluding organisms used in pest and disease control); circulation, respiration, etc.

Chemical composition, chemical analysis of useful animals (excluding organisms used in pest and disease control)

For:

| | |
|---|---|
| animal metamorphosis, growth and development, see | L52 |
| animal nutrition physiology, see | L51 |
| animal reproduction physiology, see | L53 |
| animal resistance to climate, extreme conditions, see | L74 |
| immunology (general), see | L70 |

| | |
|---|---|
| immunity: animal resistance to diseases, see | L73 |
| immunity: animal resistance to pests, see | L72 |
| pest physiology, see | H10, L72 |
| physiological disorders of animals, see | L74 |
| physiology and biochemistry of organisms used in pest and disease control, see | H10, H20, L72, L73 |

### *L51 Animal physiology - Nutrition*

See also: L02 for Techniques of feeding useful terrestrial animals; M12 for Techniques of feeding useful aquatic animals

Animal nutrition physiology involving the processes by which feed substances are transformed into body elements in useful aquatic and terrestrial animals (excluding organisms used in pest and disease control); ingestion, digestion, absorption and assimilation of nutrients, inanition, rumination, reserve formation, waste elimination, anabolism, catabolism, metabolism

For:

| | |
|---|---|
| effects of aquatic animal feeding, see | M12 |
| effects of terrestrial animal feeding, see | L02 |
| feed technology, see | Q51-Q55 |
| nutritional disorders in animals, see | L74 |
| nutritional disorders in man, see | S30 |
| nutritional physiology in man, see | S20 |
| nutritional physiology in organisms used in pest and disease control, see | H10, H20, L72, L73 |
| pest nutrition physiology, see | H10, L72 |

### *L52 Animal Physiology - Growth and development*

Growth and development of useful aquatic and terrestrial animals (excluding organisms used in pest and disease control); metamorphosis, animal senescence, cell differentiation, etc.

For:

| | |
|---|---|
| growth and development of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| pest growth and development, see | H10, L72 |

### *L53 Animal physiology - Reproduction*

Reproductive physiology of useful aquatic and terrestrial animals (excluding organisms used in pest and disease control)

Spermatogenesis, oogenesis, sex hormones, oestrus, ovulation, pregnancy, parturition, fertility, etc.

For:

| | |
|---|---|
| animal genetics and breeding, see | L10 |
| pest reproduction physiology, see | H10, L72 |
| reproduction physiology of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| reproductive disorders in animals, see | L74 |
| structure of reproductive system, see | L40 |
| surgical intervention in parturition, see | L70 |

### *L60 Animal taxonomy and geography*

Classification, identification, nomenclature and phylogeny of useful aquatic and terrestrial animals (excluding organisms used in pest and disease control)

Geographic distribution of animals; fauna

For:

| | |
|---|---|
| animal ecology: aquatic, see | M40 |
| terrestrial, see | L20 |
| animal genetics, see | L10 |
| soil fauna, see | P34 |
| taxonomy and distribution of organisms used in pest and disease control, see | H10, H20, L72, L73 |
| taxonomy and distribution of pests, see | H10, L72 |

### *L70 Veterinary science and hygiene - General aspects*

General considerations on veterinary medicine; veterinary surgery, dentistry, obstetrics

Veterinary organization and services

Post-mortem examinations; diagnostic methods

Veterinary hygiene; animal health inspection

Theoretical aspects of immunology in veterinary medicine; pharmacology of veterinary drugs

For:

| | |
|---|---|
| animal diseases, see | L73 |
| animal quarantine regulations, see | D50 |
| immunity of animals to diseases, see | L73 |
| immunity of animals to pests, see | L72 |
| meat inspection, see | Q03 |
| pests of animals, see | L72 |
| physiological and genetic animal disorders, see | L74 |
| resistance of animals to climate, extreme conditions, see | L74 |
| veterinary education, training, see | C10 |
| veterinary laboratory research methods, see | U30 |

### *L72 Pests of animals*

Do not include information in which pests of animals are used for the study of general biological processes, e.g. genetics, and which does not have a direct bearing on their control or on the injury or irritation to useful animals caused by these organisms

Pests of useful aquatic and terrestrial animals, such as parasites, predators or vectors of pathogens

Insects, mites, ticks, helminths, protozoa, birds or mammals injurious to useful aquatic or terrestrial animals

Animal pest control materials, methods and programmes (including cultural, chemical, physical, mechanical, integrated and biological control); rearing of organisms used in animal pest control; genetics, ecology, structure, physiology, biochemistry and taxonomy of control organisms

Animal pest surveys

Immunity: animal resistance to pests, pest resistance to pesticides, etc.; immunization

Ecology, structure, physiology, biochemistry and taxonomy of animal pests

For:

| | |
|---|---|
| animal diseases, see | L73 |
| animal pest control equipment, see | N20 |
| animal quarantine regulations, see | D50 |
| breeding for resistance to pests of animals, see | L10 |
| physiological and genetic animal disorders, see | L74 |
| properties and examination of animal pathogens, disease-producing organisms, see | L73 |
| protection of animal products, see | J13 |
| toxicity of pesticides to humans, see | T10 |
| toxicity of pesticides to useful animals, see | L74 |
| toxicity of pesticides to useful plants, see | H50 |

### *L73 Animal diseases*

Diseases of useful aquatic and terrestrial animals, and their causal organisms: bacteria, fungi, mycoplasma, viruses, etc.

Zoonoses (animal diseases transmissible between animals and man)

Animal disease control materials, methods and programmes (including cultural, chemical, physical, mechanical, integrated and biological control); rearing of organisms used in animal disease control; genetics, ecology, structure, physiology, biochemistry and taxonomy of control organisms

Animal disease surveys

Immunity: animal resistance to infection, pathogen resistance to pesticides, etc.; immunization

Properties and examination of animal pathogens, disease-producing organisms

For:

| | |
|---|---|
| animal disease control equipment, see | N20 |
| animal quarantine regulations, see | D50 |
| breeding for resistance to animal diseases, see | L10 |
| deficiency diseases in animals, see | L74 |
| genetic disorders in animals, see | L74 |
| nutritional disorders in animals, see | L74 |
| pests of animals, see | L72 |
| physiological disorders in animals, see | L74 |
| protection of animal products, see | J13 |
| toxicity of pesticides to humans, see | T10 |
| toxicity of pesticides to useful animals, see | L74 |
| toxicity of pesticides to useful plants, see | H50 |

### *L74 Miscellaneous animal disorders*

Physiological disorders in general, nutritional disorders, genetic disorders in useful aquatic and terrestrial animals; deficiency diseases

Injuries caused by atmospheric factors (such as heat, cold), fire, equipment and other physical agents

Materials, methods and programmes for prevention and control of animal disorders and animal injuries

Poisoning of useful animals by toxic substances (toxic chemicals, poisons, toxins, venoms), by poisonous plants

Animal resistance to climate, extreme conditions

For:

| | |
|---|---|
| breeding for resistance to climate, extreme conditions, see | L10 |
| damage to animal products, see | J13 |

# M FISHERIES AND AQUACULTURE

## *M01 Fisheries and aquaculture - General aspects*

Do not include information on scientific studies in oceanography and limnology, unless it relates specifically to fisheries and aquaculture

General considerations on fisheries and aquaculture

Exploration and improvement of aquatic resources, both plant and animal, for human use

Conservation of aquatic life resources in general

For:

| | |
|---|---|
| aquaculture industries, see | E21 |
| aquaculture production, see | M12 |
| fisheries industries, see | E21 |
| fisheries production, see | M11 |
| organization, administration and management of fisheries and aquacultural enterprises, see | E20 |

## *M11 Fisheries production*

Methods for freshwater and marine fishing: including fishing strategies, fishing-grounds, etc.

Whaling, sealing and catching of other marine animals

Stock assessment; sampling; overfishing

Fisheries yields; harvesting of fisheries products

For:

| | |
|---|---|
| aquaculture production, see | M12 |
| distribution and marketing of fisheries products, see | E70 |
| fisheries industries, see | E21 |
| fishery harbours, see | N01 |
| fishing equipment, see | N20 |
| harvesting of aquacultural products, see | M12 |
| hygienic aspects of fisheries products, see | Q03, Q53 |
| organization, administration and management of fisheries enterprises, see | E20 |
| protection of fisheries products, see | J14 |
| sport fishing, see | P01 |
| storage of fisheries products, see | J14 |
| transport of fisheries products, see | J14 |

## *M12 Aquaculture production*

See also: L51 for Animal nutrition physiology

Methods for animal and plant aquaculture

Rearing and care of fish, shellfish and other aquatic animals, pisciculture

Freshwater, seawater and brackish water farming: ponds, hatcheries, tanks, pens, etc.

Feeding of aquatic animals, plankton, nekton, etc.

Cultivation of aquatic plants for food, feed, energy, etc.

Aquaculture yields; harvesting of aquatic plants and animals

For:

| | |
|---|---|
| aquaculture industries, see | E21 |
| aquatic animal nutrition physiology, see | L51 |
| aquatic plant nutrition physiology, see | F61 |
| breeding of aquatic animals, see | L10 |
| breeding of aquatic plants, see | F30 |
| distribution and marketing of aquacultural products, see | E70 |
| effects of aquatic animal feeding on food quality, see | Q04 |
| equipment for aquaculture, see | N20 |
| fisheries production, see | M11 |
| harvesting of fisheries products, see | M11 |
| hygienic aspects of aquacultural products, see | Q03, Q53 |
| organization, administration and management of aquacultural enterprises, see | E20 |
| protection of aquacultural products, see | J14 |
| storage of aquacultural products, see | J14 |
| transport of aquacultural products, see | J14 |

### *M40 Aquatic ecology*

Ecology and biology of animal and plant life in fresh, brackish and marine waters

Littoral life

Behaviour: migrations, movements, rhythms

Population dynamics

For:

| | |
|---|---|
| aquatic weeds, see | H60 |
| effects of water pollution, see | T01 |

# N AGRICULTURAL MACHINERY AND ENGINEERING

## *N01 Agricultural engineering*

General considerations on engineering in relation to agriculture

Safety engineering; fire detection and control (but not forest fires); safety devices, accident prevention equipment

Electrical and electronic engineering: rural electrification, heating, lighting, telephones, etc.

Design, construction and maintenance of rural roads, railways, fishery harbours, etc.

Design, construction and maintenance of farm water supply systems, sewage and waste disposal systems

Hydraulic engineering in rural areas; hydraulic models, structures: breakwaters, dams, fishways, etc.; construction, operation and maintenance of water reservoirs, tanks, conduits and canals, water wells, etc.

For:

| | |
|---|---|
| energy resources management, see | P05 |
| forest engineering, see | K11 |
| forest fires, see | K70 |
| well surveys, see | P10 |

## *N02 Farm layout*

Farm layout: outlines of roads, lanes, building sites, service areas, field arrangements, tile (drain) lines of a farm

For:

| | |
|---|---|
| agricultural engineering, see | N01 |
| agricultural structures, see | N10 |

## *N10 Agricultural structures*

Design, materials, construction and maintenance of agricultural structures such as farm-houses; animal housing; plant housing: glass-houses, etc.; farm storage buildings: barns, silos, etc.; harvesting and handling buildings; ancillary buildings: garages, toolsheds, etc.; enclosures and protection installations; etc.

For:

| | |
|---|---|
| agricultural machinery and equipment, see | N20 |

### *N20 Agricultural machinery and equipment*

Agricultural hand and power equipment and machines used for: transportation of agricultural products, pest and disease control of plants and animals, plant production and protection, forestry production and protection (including forest fire detection and control equipment), animal production and protection, fisheries and aquaculture (including fishing vessels), water management (including drainage, irrigation and hydraulic machinery and equipment), etc.

For:

| | |
|---|---|
| accident prevention equipment, see | N01 |
| agricultural machinery industry, see | E2l |
| feed processing equipment, see | Q52 |
| food processing equipment, see | Q02 |
| meteorological instrumentation and equipment, see | P40 |
| research equipment, see | U30 |

# P NATURAL RESOURCES AND ENVIRONMENT

## *P01 Nature conservation and land resources*

Do not include information on general ecology; for ecology related to specific subjects, see appropriate subject categories

General aspects of natural resources in relation to agriculture

Conservation of plants and vegetation; plant wildlife management; botanical gardens, arboreta

Conservation of animals; animal wildlife management, game reserves and surveys; game hunting and sport fishing

Land resources in general

Conservation and restoration of natural environment; national parks

Recreational uses of forest land, of farm land

Landscape management, landscape and scenery preservation

For:

| | |
|---|---|
| agrotourism as an ancillary farm enterprise, see | E20 |
| animal ecology: aquatic, see | M40 |
| animal ecology: terrestrial, see | L20 |
| aquaculture management, see | E20 |
| aquatic ecology, see | M40 |
| aquatic life resources in general, see | M01 |
| economics of land development and utilization, see | E11 |
| energy resources management, see | P05 |
| farm holidays as an ancillary farm enterprise, see | E20 |
| fisheries management, see | E20 |
| forest ecology, see | F40 |
| forest resources in general, see | K01 |
| forestry management, see | E20 |
| gardening, see | F01 |
| human ecology, see | E50 |
| land reform, see | E11 |
| marine ecology, see | M40 |
| plant ecology: aquatic, see | M40 |
| plant ecology: terrestrial, see | F40 |
| rural population ecology, see | E51 |
| soil conservation, see | P36 |
| soil resources, see | P30 |
| water resources and management, see | P10 |

## *P05 Energy resources management*

Use for energy resources management in relation to agriculture

Energy policies; energy situations

Energy economics, supply and demand; energetics, energy accounting, budget, subsidy, cost; energy flow, energy ratio

Conservation, requirements and use of energy (including animal draught, animal traction energy) in the production, processing, marketing and transportation of agricultural products

Energy storage; power conversion devices; power distribution

Power plants for agricultural or rural use

For:

| | |
|---|---|
| non-renewable energy resources, see | P07 |
| renewable energy resources, see | P06 |
| rural electrification, electrical and electronic engineering, see | N01 |

### *P06 Renewable energy resources*

Use for renewable energy resources in relation to agriculture

Development of energy for agricultural production or post-harvest processing from renewable energy resources such as solar energy, geothermal energy, tidal energy, hydropower, windpower, biomass or organic sources (including agro-industrial wastes, algae, animal waste, crop residues, energy crops, manure, wood, etc.)

Conversion processes (alcoholic fermentation, distillation, gasification, etc.) for the production of combustibles (alcohol, biogas, etc.) to be used in agricultural applications utilizing agricultural products

For:

| | |
|---|---|
| energy resources management, see | P05 |
| non-renewable energy resources, see | P07 |

### *P07 Non-renewable energy resources*

Use for non-renewable energy resources in relation to agriculture

Development of energy for agricultural production or post-harvest processing from conventional or non-renewable energy resources (such as petroleum, oil shale, natural gas, coal, peat, etc.)

For:

| | |
|---|---|
| energy resources management, see | P05 |
| renewable energy resources, see | P06 |

### *P10 Water resources and management*

Resource potentialities and assessment of water for use in agriculture

Water resource management, planning and development: groundwater prospecting, integrated development of surface and groundwater, river basin development, watershed management

Water conservation

Flood forecasting, flood and river control, torrent control

Occurrence, distribution and circulation of waters through the hydrologic cycle of precipitation, run-off, infiltration and storage, eventual evaporation, transpiration and reprecipitation

Hydrogeology, hydrography

Hydromechanics

Results of water surveys; water mapping; well surveys

Water analysis: biological, chemical, physical

Nature and quality of water: brackish water, desalinated water, drinking water, freshwater, saline water, seawater

Water quality control

Water treatment; water purification, recycling, softening, chlorination, clarification, deionization, demineralization, desalination, distillation, filtration, fluoridation, etc.

Water supply and utilization; water availability, distribution, supply services

Water consumption

Water storage

Waste water treatment

For:

| | |
|---|---|
| drainage, see | P11 |
| erosion control, see | P36 |
| hydraulic engineering, see | N01 |
| hydrometeorology, see | P40 |
| induced rainfall, see | P40 |
| irrigation, see | F06 |
| limnological aspects, see | M01 |
| meteorology and climatology, see | P40 |
| oceanographical aspects, see | M01 |
| soil erosion by water, see | P36 |
| surveying methods, see | U40 |
| waste water use for fertilizing, see | F04 |
| waste water use for irrigation, see | F06 |
| water as power source, see | P06 |
| water in soils, see | P33 |
| water pollution, see | T01 |
| water reservoirs, tanks, canals etc., see | N01 |

### *P11 Drainage*

Agricultural drainage: removal of excess surface water or groundwater from agricultural land; surface drainage, subsurface drainage

Drainage surveys to determine the need for and requirements of a drainage system

Drainage system: network of furrows, ditches, tile drains, by which farm land is drained

For:

| | |
|---|---|
| construction, operation and maintenance of conduits, canals, etc., see | N01 |
| drainage equipment, see | N20 |
| irrigation, see | F06 |
| surveying methods, see | U40 |
| watershed management, see | P10 |

### *P30 Soil science and management*

Soil science in general

Resource potentialities of soils; soil capability

Soil resources planning and development

For:

| | |
|---|---|
| economics of land development, see | E11 |
| fertilizing, see | F04 |
| irrigation, see | F06 |
| land resources, see | P01 |
| landscape management, landscape and scenery preservation, see | P01 |
| losses of soil, soil conservation, see | P36 |
| soil cultivation, see | F07 |
| soil erosion, see | P36 |
| soil fertility, see | P35 |
| soil reclamation, see | P36 |
| soil surveys, see | P31 |
| water resources and management, see | P10 |

### *P31 Soil surveys and mapping*

Results of soil surveys; soil mapping

For:

| | |
|---|---|
| forest surveys and mapping, see | K10 |
| soil classification, see | P32 |
| surveying methods, see | U40 |
| surveys of land use and capabilities, see | E11 |
| water surveys and mapping, see | P10 |

### *P32 Soil classification and genesis*

Spatial distribution of soils; genetic (zonal) and textural classification

Soil profiles; horizons and soil depth

Soil formation; weathering, transported soils, age of soils

For:

| | |
|---|---|
| soil erosion, see | P36 |
| soil surveys, see | P31 |

### *P33 Soil chemistry and physics*

Soil chemistry: organic and inorganic chemistry of soils (but not biochemistry)

Soil analysis; soil evaluation; experimental techniques, field experiments

Soil physics; physical properties: aeration, texture, etc.; soil moisture content and water-retaining capacity, soil solution, permeability; absorption and adsorption, capillarity, infiltration; electrical and other physical aspects in relation to soils

Soil mechanics and structure, including structural condition and stability, porosity

Soil engineering

For:

| | |
|---|---|
| biochemistry of soils, see | P34 |
| classification of soils, see | P32 |
| drainage, see | P11 |
| irrigation, see | F06 |
| soil erosion, see | P36 |
| soil fertility, see | P35 |
| soil surveys, see | P31 |

### *P34 Soil biology*

Soil fauna (excluding pests) and flora (excluding soil-borne plant pathogens); soil-plant-animal relationships

Soil bacteriology and microbiology: ammonification, nitrification, denitrification, nitrogen-fixation, inoculation, root nodulation, decomposition of non-nitrogenous compounds, conversion of inorganic substances, rhizobia, mycorrhiza

Soil biochemistry

Decomposition of litter; humus

For:

| | |
|---|---|
| physiological aspect of symbiotic phenomenon, see | F61 |
| plant pests in soil, see | H10 |
| soil-borne plant pathogens, see | H20 |
| soil sterilization and hygiene, see | F07 |

### *P35 Soil fertility*

Soil conditions favourable for sustaining plant growth

Determination of soil fertility

Soil degradation, deterioration, exhaustion, impoverishment, and toxicity; leaching, salinity and desalination; nutrient availability, nutrient content

For:

| | |
|---|---|
| application of fertilizers and manures, see | F04 |
| biological input to soil fertility, see | P34 |
| fertilizing, see | F04 |
| mineral deficiencies in plants, see | H50 |
| plant nutrition physiology, see | F61 |
| soil analysis, see | P33 |
| soil chemistry and physics, see | P33 |
| soil conditioners, see | F04 |
| soil conservation, see | P36 |
| soil cultivation, see | F07 |
| soil pollution, see | T01 |
| soil sterilization, see | F07 |
| utilization of wastes, sewage, sludge as fertilizers, see | F04 |

### *P36 Soil erosion, conservation and reclamation*

Loss and movement of topsoil

Erosion by water or wind

Soil conservation; prevention and control of erosion by agricultural practices, soil or land fixation, and other methods

Soil reclamation, restoring of soil for cultivation

For:

| | |
|---|---|
| drainage, see | P11 |
| economics of land development and utilization, see | E11 |
| forest shelterbelts and windbreaks, see | K10 |
| leaching, see | P35 |
| soil degradation, see | P35 |
| soil salinity, see | P35 |

### *P40 Meteorology and climatology*

Air and atmosphere; agrometeorology, including weather forecasting; temperature

Barometric pressure; humidity; winds; hydrometeorology, precipitation (excluding surface water aspects); induced rainfall

Agroclimatology, including bioclimate, microclimate, climatic influence, types, zones and changes

Climate and weather mapping

Meteorological instrumentation and equipment

For:

| | |
|---|---|
| air pollution, see | T01 |
| animal injury by atmospheric factors, see | L74 |
| environmental pollution, see | T01 |
| farming under specific climatic conditions, see | F08 |
| forest injuries by atmospheric factors, see | K70 |
| hydrology, see | P10 |
| plant injury by atmospheric factors, see | H50 |
| solar energy, see | P06 |
| weathering in relation to soils, see | P32 |
| wind and rain in relation to soil erosion, see | P36 |

# Q PROCESSING OF AGRICULTURAL PRODUCTS

## *Q01 Food science and technoloay*

Food science and technology in general

For:

| | |
|---|---|
| feed processing, see | Q52 |
| feed technology, see | Q51 |
| food processing, see | Q02 |
| human nutrition, see | S01-S40 |
| labelling, standards, grading of agricultural products, see | E70 |
| legislative aspects of quality control of agricultural products, see | D50 |
| packaging, see | Q80 |
| primary processing of non-food or non-feed agricultural products, see | Q60 |
| processing of agricultural wastes, see | Q70 |

## *Q02 Food processing and preservation*

Basic technologies applied to the conversion of primary products into food for man

Processing of food products

Beneficial food micro-organisms; food microbiology, methods of using microbes in food processing: fermentation processes, etc.

Equipment and processing techniques of food and drink manufacture

Materials and methods for the preservation of foodstuffs and processed foods; includes preservation by:

- smoking, smoke-curing chemical methods (gas, salting, pickling)
- heat preserving (boiling, pasteurization, etc.)
- cold preserving (refrigeration, chilling, deep freezing)
- pressure, vibration, irradiation, electricity
- drying, dehydration, desiccation
- etc.

For:

| | |
|---|---|
| constituents and composition of food, see | Q04 |
| distribution and marketing of food, see | E70 |
| feed processing and preservation, see | Q52 |
| food contamination and toxicology, see | Q03 |
| food quality, see | Q04 |
| food industry, see | E21 |
| food standards, see | E70 |
| food storage, see | J10-J14 |
| home food preservation, see | E80 |
| human nutrition, see | S01-S40 |
| legislative aspects of hygienic control of food products, see | D50 |
| legislative aspects of quality control of food products, see | D50 |

| | |
|---|---|
| primary processing and conservation of non-food or non-feed agricultural products, see | Q60 |
| protection of agricultural products, see | J10-J15 |
| storage of agricultural products, see | J10-J15 |
| transport of agricultural products, see | J10-J15 |

### *Q03 Food contamination*

Deleterious food micro-organisms

Food toxicology and spoilage: defects, disease organisms, adulteration, contamination, deterioration

Public health aspects of foodstuffs: meat inspection, food hygiene, food disease control, etc.

For:

| | |
|---|---|
| beneficial food micro-organisms, see | Q02 |
| feed contamination and toxicology, see | Q53 |
| food preservation, see | Q02 |
| food protection, see | J10-J14 |
| food quality, see | Q04 |
| food storage, see | J10-J14 |
| legislative aspects of quality control of food products, see | D50 |

### *Q04 Food composition*

Constituents and composition of foods

Chemical analysis of food

Food composition nutrients: proteins, amino acid, carbohydrates, lipids, minerals, enzymes, vitamins, etc.

Food quality: nutritive value, calorific value; analysis, organoleptic testing (flavour, odour, appearance)

For:

| | |
|---|---|
| feed composition, see | Q54 |
| food additives, see | Q05 |
| grading, standards and labelling of food, see | E70 |
| legislative aspects of quality control of food products, see | D50 |
| nutrition standards, see | S30 |
| properties of unprocessed non-food or non-feed agricultural products, when ultimate use not known to be food or feed, see | Q60 |

### *Q05 Food additives*

Materials added to food to improve colour, flavour, texture; seasonings, emulsifiers, stabilizers, sweeteners, etc.

For:

| | |
|---|---|
| feed additives, see | Q55 |
| food composition, see | Q04 |
| public health aspects of foodstuffs, see | Q03 |

### *Q51 Feed technology*

Animal feed technology in general

For:

| | |
|---|---|
| animal feeding: aquatic, see | M12 |
| animal feeding: terrestrial, see | L02 |
| feed processing, see | Q52 |
| food science and technology, see | Q01 |
| hygienic control of feed, see | Q53 |
| legislative aspects of quality control of feed, see | D50 |

### *Q52 Feed processing and preservation*

Basic technologies applied to the conversion of primary products into feed for animals

Processing of feed

Fodder and silage processing

Beneficial feed micro-organisms; feed microbiology; methods of using microbes in feed processing, fermentation processes, fodder yeasts, etc.

Equipment and processing techniques of feed manufacture

Materials and methods for the preservation of feed

For:

| | |
|---|---|
| animal feeding: aquatic, see | M12 |
| animal feeding: terrestrial, see | L02 |
| constituents and composition of feed, see | Q54 |
| distribution and marketing of feed, see | E70 |
| feed contamination and toxicology, see | Q53 |
| feed industry, see | E21 |
| feed inspection, hygienic control of feed, see | Q53 |
| feed quality, see | Q54 |
| feed standards, see | E70 |
| feed storage, see | J10-J14 |
| food processing and preservation, see | Q02 |
| legislative aspects of quality control of feed, see | D50 |
| primary processing and conservation of non-food or non-feed | Q60 |

| | |
|---|---|
| agricultural products, see | |
| protection of agricultural products, see | J10-J15 |
| storage of agricultural products, see | J10-J15 |
| transport of agricultural products, see | J10-J15 |

### *Q53 Feed contamination and toxicology*

Deleterious feed micro-organisms

Feed toxicology, adulteration, contamination, deterioration

Spoilage; disease organisms in feed

Feed inspection, hygienic control of feed

For:

| | |
|---|---|
| beneficial feed micro-organisms, see | Q52 |
| feed preservation, see | Q52 |
| feed protection, see | J10-J14 |
| feed quality, see | Q54 |
| feed storage, see | J10-J14 |
| food contamination and toxicology, see | Q03 |
| legislative aspects of quality control of feed, see | D50 |

### *Q54 Feed composition*

Constituents and composition of feed

Chemical analysis of feed

Feed quality: analysis, testing

Nutritive value of feed; feed formulae

For:

| | |
|---|---|
| effects of feeding: aquatic animal, see | M12 |
| effects of feeding: terrestrial animal, see | L02 |
| feed additives and supplements, see | Q55 |
| feeding methods: aquatic animal, see | M12 |
| feeding methods: terrestrial animal, see | L02 |
| food composition, see | Q04 |
| grading, standards and labelling of feed, see | E70 |
| legislative aspects of quality control of feed, see | D50 |
| properties of unprocessed non-food or non-feed agricultural products, when ultimate use not known to be food or feed, see | Q60 |

### *Q55 Feed additives*

Feed additives: substances added to feeding-stuffs or concentrates to balance livestock ration and improve animal growth

For:

| | |
|---|---|
| animal feeding: aquatic, see | M12 |
| terrestrial, see | L02 |
| feed composition, see | Q54 |
| feed inspection, hygienic control of feed, see | Q53 |
| food additives, see | Q05 |

### *Q60 Processing of non-food or non-feed agricultural products*

Primary processing of non-food or non-feed plant products (excluding forest products): fibres, tobacco, cotton, etc.

Primary processing of non-food or non-feed animal products: wool, fur, hides, leather, silk, etc.

Properties of unprocessed non-food or non-feed agricultural products, when ultimate use not known to be food or feed

For:

| | |
|---|---|
| feed processing, see | Q52 |
| food processing, see | Q02 |
| handling of non-food or non-feed agricultural products, see | J15 |
| handling, transport, storage and protection of forest products, see | J12 |
| processing of forest products, see | K50 |
| protection of non-food or non-feed agricultural products, see | J15 |
| storage of non-food or non-feed agricultural products, see | J15 |
| transport of non-food or non-feed agricultural products, see | J15 |

### *Q70 Processing of agricultural wastes*

Processing of agricultural wastes and by-products (excluding waste water treatment and production of energy from waste)

Waste management (excluding waste water management): waste disposal, waste recycling

Waste treatment (excluding waste water treatment): purification methods, physical and mechanical treatment, chemical treatment, biological treatment related to agriculture, etc.

For:

| | |
|---|---|
| pollution and pollutants, see | T01 |
| production of energy from waste, see | P06 |
| use of wastes for fertilizing, see | F04 |
| waste and sewage disposal systems, see | N01 |
| waste water use for irrigation, see | F06 |
| waste water treatment, see | P10 |

### *Q80 Packaging*

Use for packaging of agricultural products in general; add categories for specific subjects as appropriate

> Packaging of agricultural products: canning, bottling, hermetic sealing, vacuum packing, wrapping, coating, packeting, baling, etc.

For:

| | |
|---|---|
| feed preservation, see | Q52 |
| feed storage, see | J10-J14 |
| food preservation, see | Q02 |
| food storage, see | J10-J14 |
| home food preservation, see | E80 |

# S HUMAN NUTRITION

## *S01 Human nutrition - General aspects*

Human nutrition in general; nutritional status of populations

Attitudes of man in relation to foods, including behavioural, psychological, and social aspects; eating habits, food preferences

For:

| | |
|---|---|
| consumer economics, see | E73 |
| food aid, see | E14 |
| food in the home, see | E80 |
| food supply policies, see | E10 |
| nutrition education and training, see | C10 |
| nutrition programmes, see | S40 |
| nutrition standards, see | S30 |
| physiology of human nutrition, see | S20 |
| public health aspects of food, see | Q03 |

## *S20 Physiology of human nutrition*

Nutritional physiology in man: metabolism and utilization of nutrients; digestion

Hunger, thirst, inanition, nutritional requirements and growth, nutritional requirements and external environment

Breast feeding; infant nutrition; human milk; lactation; weaning; infant immunity

For:

| | |
|---|---|
| nutrition standards, see | S30 |
| physiology of animal nutrition, see | L51 |

## *S30 Diet and diet-related diseases*

Nutritional and metabolic diseases and disorders, deficiencies, food allergies, malnutrition; their prevention and control

Nutrition standards; dietary surveys

Parenteral feeding

For:

| | |
|---|---|
| animal feeding: aquatic, see | M12 |
| terrestrial, see | L02 |
| food and eating habits, see | S01 |
| home preparation of food and meals, see | E80 |
| nutrition programmes, see | S40 |
| nutritional and metabolic diseases and disorders in animals, see | L74 |

### *S40 Nutrition programmes*

Nutrition programme planning, policies, administration; programme impact and evaluation

Community nutrition programme

Child nutrition programmes: school breakfast and lunch programmes, milk programmes, etc.

For:

| | |
|---|---|
| diet and diet-related diseases, see | S30 |
| food aid, see | E14 |
| food situation planning, food supply policies, see | E10 |
| nutrition standards, see | S30 |
| physiology of human nutrition, see | S20 |

# T POLLUTION

## *T01 Pollution*

Air, soil and water pollution and pollutants caused by or affecting agriculture; prevention and control

Degradation or susceptibility to degradation of the environment by natural phenomena or as a consequence of man's activities in agriculture; environmental damage by herbicides, pesticides

Radioactive contamination in relation to agriculture

For:

| | |
|---|---|
| agricultural wastes, see | Q70 |
| forest injuries caused by natural phenomena, man's activities, equipment, toxic chemicals and other physical agents, see | K70 |
| hygienic control of feed, see | Q53 |
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| utilization of agricultural wastes and by-products, see appropriate categories | |
| veterinary aspects of public health, see | L70 |
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| waste management: waste disposal, waste recycling, see | Q70 |
| waste water treatment, see | P10 |
| water quality control, see | P10 |

## *T10 Occupational diseases and hazards*

Use only for diseases and hazards to workers in the field of agriculture due to their occupational activities

Harmful effects of agricultural, occupational activities and work environment on workers' health and safety

Occupational or industrial accidents, injuries, safety hazards

For:

| | |
|---|---|
| accident prevention education programmes, see | E50 |
| accident prevention devices, see | N01 |
| employment injuries benefits, see | E50 |
| health insurance, see | E50 |
| health protection education programmes, see | E50 |
| health protection devices, see | N01 |
| health services, see | E50 |
| life insurance, see | E50 |
| occupational health services, see | E50 |

| | |
|---|---|
| personal accident insurance, see | E50 |
| quality of working life, work environment, working conditions, see | E50 |
| safety devices, see | N01 |
| safety engineering, see | N01 |
| social insurance, see | E50 |
| zoonoses, see | L73 |

# U METHODOLOGY

## *U10 Mathematical and statistical methods*

General considerations on mathematical and statistical METHODS pertaining to agriculture; for statistical data on specific subject matters, see appropriate subject categories

Computer modelling, programming

For:

| | |
|---|---|
| computer models of forest stands, see | K10 |
| econometric models of markets, see | E70 |
| econometrics in general, economic models, see | E10 |

## *U30 Research methods*

General considerations on research METHODS and TECHNIQUES in relation to food and agriculture; for research results on specific subjects, see appropriate subject categories

Research equipment, laboratory equipment

For:

| | |
|---|---|
| agricultural research administration, see | A50 |
| experimental stations and farms in relation to education, see | C10 |
| market research, see | E70 |

## *U40 Surveying methods*

General considerations on surveying METHODS and TECHNIQUES in relation to agriculture; for results of surveys in specific fields, see appropriate subject categories

Ground surveys, aerial surveys, photo interpretation, remote sensing including the use of satellites: environmental satellites (Meteosat), earth resources satellites (Landsat)

For:

| | |
|---|---|
| drainage surveys, see | P11 |
| forest surveys, see | K10 |
| land use surveys, see | E11 |
| rural population surveys, see | E51 |
| soil surveys, see | P31 |
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Storage decay,
- agricultural products in general **J10**
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- animal products **J13**
- aquacultural products **J14**
- fishery products **J14**
- forest products **J12**
- non-food or non-feed agricultural products **J15**
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- plant **F30**

Stratification,
- seed (placing of seeds in alternate layers or mixed in moist sand, peat moss or other medium as a means of breaking the rest period) **F03**
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Strength,
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Strip cropping **F08**

Strip felling (forestry),
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Strip grazing **L02**

Structural condition of soils **P33**

Structural engineering **N01**

Structural unemployment (unemployment caused by changes in the structure of the economy resulting from technological change, relocation of industry, or changes in the composition of the labour force) **E12**

Structure,
- agrarian (multidisciplinary framework of agricultural production and supporting services; including land tenure systems, agricultural credit, employment; related rural institutions; etc.; each constituting an integral part of the whole) **E90**
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- animal **L40**
- animal pest **L72**
- animal population **L20**
- farm **N02**
- human population **E51**
- market **E70**
- occupational **E12**
- plant **F50**
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Structures,
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- hydraulic **N01**
- plant housing **N10**
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- storage **N10**

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- agricultural support **E13**

Subsidy,
- energy **P05**

Subsistence farming **E20**

Subsoiling (tillage of the subsoil or soil pan below the normal plough depth) **F07**

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Suitability,
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Supply policies,
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Supply,
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- food **E10**
- labour **E12**
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