

## **Appendix D: NAL Subject Category Codes**

Category Codes (1970-1971)

05	Agriculture (general)
10	Agricultural economics and rural sociology
15	Agricultural products (economics and technology)
20	Animal sciences
25	Chemistry
30	Engineering
35	Entomology
40	Food, human nutrition, and home economics
45	Forestry
50	Life sciences (general)
55	Natural resources (general)
60	Pesticides (general)
65	Physical sciences (general)
70	Plant science
75	Social science (general)
80	Soils and fertilizers
85	Water resources
90	Reference materials

Category Codes (1972-1979)

General Agriculture & Rural Sociology

0505 General agriculture and rural sociology

General description of U.S. and world agriculture. Agriculture history in general: Prehistoric, ancient, medieval and modern. Biographies, geographies, maps, atlases, travels.

Education: teaching, extension, demonstration, and advisory work. Short courses, correspondence courses, schools--all levels. TV, radio, and agricultural journalism.

General proceedings, annual reports and acts of agricultural institutions, societies, cooperative associations, and chambers of agriculture. Specific kinds of cooperative associations go with subject.

Techniques and methods of agricultural research.

Agricultural meteorology and climate in general.

Any of above go with a specific subject category as appropriate.

Human ecology, social psychology, social effects, social institutions. Rural organization and movements, leadership, farmer political power. Health, welfare, etc., affecting family life. Rural-urban relations. Population migration to urban areas. Social aspects of migratory and contract labor, women as laborers, sharecroppers, etc. Cost and standard of living.

For home demonstrations and home economics see 1515.

Includes any agricultural item too general for other categories.

Agricultural Economics

1005 General agricultural economics and land economics

General description of U.S. and world agricultural economies. Agriculture and industry - economic relations. Economic associations, history, education, biographies, etc.

Land settlement and colonization, rent, valuation. Land classification, utilization, multiple use. Recreational use of farm land, shifting cultivation, conversion of land to non-agricultural uses, rural-urban fringe, land zoning. Tenure, farm mergers, consolidation of holdings. Land or agrarian reform. Regional planning involving land only.

For location theory see 1030.

For forest land use see 3510.

1010 Agricultural administration and management

Organization and administration of national and international

agriculture in general; public relations, personnel on local, regional, central, public, governmental, non-governmental, international levels.

Farm management: operation of farms to obtain maximum amount of continuous net income. Alternative systems of farming, budgeting, accounting, cost and return planning, input-output analysis, programs of adjustment, integration, etc.

Collective farming, state farms, contract farming, cooperative farming, corporation farming, part-time farming, share farming, tenant farming, etc.

Machine tractor stations, repair and technical stations not including purely sociological or technical aspects.

Labor: requirements and productivity. Economic aspects of migratory and contract labor, women as laborers, share-croppers, unions, etc.

Agribusiness, vertical and horizontal integration of farming. Not to include labor and management problems of processing industry unless it is part of agribusiness.

For forest management see 3510.

For actual costs and returns see 1015.

1015      Agricultural production costs and returns

General agricultural finance. Cost factors: land, capital, materials, labor (wages, incentives, bonuses), overhead; credit and interest rates; taxes; insurance: fire, accident, unemployment, social security, health, etc. Pesticides, fertilizer and agricultural equipment costs as they relate to agricultural production (otherwise in 4560, 6010, and 5510).

Selling, processing, and distribution costs; farm income; return on farm investment.

Farm losses from the economic aspect. Not to include processing industries costs and returns unless they are part of agribusiness.

For forestry costs and returns see 3510.

For cost and return planning see 1010.

1020      Agricultural production distribution (farm products)

Supply and demand, including affecting factors as consumer preferences, consumer purchasing power, etc.

Prices: determination, control, cycles, fluctuations, inflation, indexes, trends, etc. Price support programs and subsidies. Domestic trade, marketing, transportation, advertising; foreign trade, import quotas, commodity agreements; surplus disposal.

For marketing cost and return material as a part of agribusiness or farmer operations see 1015.

For forest products see 3520.

For fertilizers as a product see 6010.

For pesticides as a product see 4560.

For farm equipment as a product see 5510.

1025 Statistical data and methodology

Discussions of agricultural statistics. Statistical methods and theory as applied to agriculture, in general; as applied to specific subjects; place in that subject category: e.g., statistical methods of plant genetics in 4025.

Includes compilation of statistical data on crops, livestock, products, acreage and area, etc., that would support management and policy decisions.

For forestry statistics see 3510.

1030 Outlook, policies, program and legislation

Productive capacity of agriculture. Population and food supply problem and programs. Control of production, production goals, surplus situation.

Agricultural relief and reconstruction, foreign aid, and technical assistance programs.

Soil bank program, agricultural conservation programs, rural development subsidies.

Situation and outlook of agricultural industries (rubber, coffee, poultry, etc.) from an economic point of view. Large scale planning, location theory.

General and specific agricultural legislation; all legislation is here, but may be double indexed to the specific subject category.

Consumer Protection and Nutrition

1505 Consumer protection

Consumer oriented research on food and textiles and on other agricultural products through the processing stages, not on the manufactured product (e.g., cigarettes).

Agricultural products: grading, inspection, regulation, standardization, quality control. Purity, contamination, adulteration, decontamination, residues, food poisoning, spoilage, fraud from the point of view of the consumer.

Includes equipment for grading and inspection of food.

Includes contamination of fish as food.

Any of the above aspects concerning feed are in 2035.

For pesticide contamination double index to 4560.

For other aspects of agricultural products see categories 2005-2030.

For other aspects of food research see 1510.

1510 Human nutrition

Metabolism and utilization of nutrients. Nutrient requirements.  
Relation of nutrition to physiology.

Food: nutritive value, vitamin research. Food consumption (diet),  
food habits, and fads, etc. Home and institutional cookery.

Nutritional deficiencies, malnutrition, human diet in relation to  
health and disease.

Includes nutrition research on laboratory animals.

For livestock nutrition research see 2515.

1515 Home economics

Clothing and textiles, home furnishings and decoration, household  
accounts, household equipment; both rural and urban. Family living  
and management practices. Home demonstrations.

For family and community relationships see 0505.

Agricultural Products

2005 Agricultural products - general

General material relating to more than one category of products and  
specific products which fall in no other groups (e.g., beverages,  
condiments, honey and beeswax, rubber, silk, bamboo, hops, fish as  
food, beer or margarine when ingredients are not mentioned, etc.).

Industrial utilization. Chemurgy. Analysis and composition.  
Processing: preparation methods such as pasteurizing, curing,  
canning, dehydrating, freeze-drying, freezing, preserving,  
irradiation, etc. Home and industrial processing.

Care, storage, refrigeration, and sanitation procedures for food and  
non-food agricultural products. Rodent control measures.  
Biochemistry of stored products.

For insect pests see 4550.

For effect of sanitation procedures on humans see 1505.

For cookery see 1510.

For storage diseases and plant products see categories 4505-4520.

2010 Dairy products Same as 2005, except 1st paragraph

2015	Livestock products	Same as 2005, except 1st paragraph Includes slaughtering.
2020	Poultry products	Same as 2005, except 1st paragraph For eggs for hatching see 2520.
2025	Field crop products	Same as 2005, except 1st paragraph
2030	Horticultural products	Same as 2005, except 1st paragraph
2035	Feed products	Same as 2005, except 1st paragraph Includes silage, hay, meals, fodder, fish as feed, etc.

Includes all aspects of consumer protection 1505 as it applies to feed.

For effect of feed on animal see 2515.

#### Animal Science

##### 2505 General and miscellaneous animal husbandry

Includes cattle, buffalos, camels, yaks, llamas, reindeer, horses, mules, sheep, goats, swine; poultry: chickens, turkeys, ducks, and geese; dogs, cats, rabbits, laboratory animals, fur animals, pen raised; fish culture as part of farm operations, not fish hatcheries.

Production and care of domestic animals. Rearing, judging, testing, training, housing; branding and other identification; livestock shows; sexing, predators of livestock.

For construction of animal housing see 5505.

For animal breeding, artificial insemination, etc. see 2520.

##### 2510 Livestock biology

Biology, anatomy, cytology, histology, morphology including teratology, physiology including metabolism, biochemistry, ecology, behavior, paleontology. Environmental biology, external influences on biological processes. Biology of rumen microorganisms. For external influences with harmful effects see 3020.

For biological aspects of diseased animals see the appropriate disease category.

For biological aspects of reproduction see 2520.

Includes physiology of nutrition and effect of rumen microorganisms and other digestive tract organisms on nutrition.

2515 Livestock feeding  
Feeds and animal nutrition; nutritive value of feeds, feed formulas, feedlots, feed supplements; effects of feeding.

For biological effects of feeding see also 2510.

2520 Livestock breeding  
Breeds, types, varieties; fertility (which is often mentioned as "reproduction"), sterility, artificial insemination, genetics, pedigrees; parturition, egg hatching, predetermination of sex, sex reversal, twinning. Estrus; pregnancy; semen; effects of breeding; physiology of reproduction.

#### Veterinary Medicine

3005 Veterinary medicine  
General; as a profession, societies, education; dehorning, castration, surgery, anaesthesia; diagnostic techniques; animal quarantine, health problems, sanitation inspection of farm and slaughterhouse.

Any of the above on with a specific subject category as appropriate.

General articles on animal diseases go here.

3010 Infectious and parasitic diseases  
Contagious diseases: bacteria, viruses, fungi (mycoses), Rickettsia, Mycoplasma, pleuropneumonia-like organisms, protozoa; Parasitic diseases: parasitic worms, such as trematodes, nematodes, helminths, flukes, etc. Vaccines, immunization, immunogenicity, antigens, antibodies; causes, control, diagnosis, prevention, transmission, treatment.

Double index insect vectors to 4555.

3015 Non Infectious diseases  
Physiological, metabolic, nutritional (deficiency diseases), hereditary; neoplasms: causes, control, diagnosis, prevention, treatment, allergy.

For nutritional deficiencies see also 2515.

3020 Miscellaneous diseases and injuries  
Diseases and injuries caused by physical agents (including radiation), chemical agents, toxic substances, pesticides, poisonous plants, foreign bodies, vices (cannibalism, tail biting, feather picking, etc.), etc.

For effects of environmental stress see also 2510.

#### Forestry



3505 Forestry - general

Associations, history, education, social and economic aspects of forestry as a whole. Techniques and methods of forestry research. Specific research goes with subject.

Forest influences: effects upon water supply, soil, climate, and health resulting from the presence of forests. Includes shelterbelts and windbreaks. Watershed management.

Forest fire research: prevention and control.

Injuries caused by man, animals, weather; pollution. Includes methods of prevention and control: natural and biological, silvicultural, physical and mechanical, chemical.

For nematodes as pests and other diseases of forest trees (except injuries) see 4505-4520.

For weeds and parasitic plants of forest trees see 4525.

For insect pests of forest trees see 4545.

3510 Forest economics and management

Business economics of forestry both domestic and foreign. Administration and organization of forest enterprises. Forest finance, valuation, and statistics. Land-use policy, including multiple use for maximum efficiency, management of recreational resources on forest lands, such as parks; includes taxation, regulation and legislation, cost and return aspects, consolidation of holding, ownership, labor.

National forest resources, experimental forests, private forests, farm woodlands. Forest engineering. Forest conservation. Forest mensuration: systems and units of measurement of trees, stands, timber; increment and yield tables. Site index and site quality. Surveying and mapping; aerial surveys; photogrammetry.

3515 Silviculture

Care of forest trees. Silvicultural systems, artificial regeneration, breeding and genetics, seed productions. Timber stand improvement, minor forest husbandry including Christmas trees and forest nurseries. Prescribed burning, killing, afforestation and reforestation.

For study of forest soils see 6005.

For forest fertilizers see 6010.

For forest drainage and irrigation see 6020.

For taxonomy, ecology, morphology, anatomy (except wood anatomy see 3520), and cytology of forest trees see 4010-4020.

For physiology and biochemistry of forest trees see 4045.

For range management see 4050.

For silvicultural equipment see 5510.

3520 Forest industries

Harvesting, logging, transportation, sawmills, and equipment. Primary and secondary processing. Timber manufacturing industries and products, pulp and paper industries, bark products, Christmas trees, and other minor forest products. Logging residues. Veneers, plywood, and built-up-stock, chemical products and distillates, naval stores. Honeycomb cores, sandwich construction materials, plastic laminates, joints and fastenings; general utilization. Grading, seasoning, control of decay (wood rotting fungi), preservation and treatment, painting and fireproofing.

Trade, marketing, prices.

Wood technology: research studies on wood in all its aspects. Identification and characteristics, structure and chemistry, mechanical and physical properties. Cellulose and lignin research whether wood product or general.

For insect pests of forest products see 4545.

For pulp from grasses, bagasse, castor bean, bamboo, etc., see 2005.

Plant Science

4005 General plant science

Associations, history, education; introduction of plants; arboretums, herbariums, botanical gardens, notable trees; techniques and methods of botanical research. Specific research goes with subject. Ethnobotany; botanical explorations; conservation of plants.

Any of the above go with a specific subject category as appropriate.

4010 Plant taxonomy and geography

Orderly classification of plants, including mechanisms underlying speciation and related processes. Plant geography, floras, cytotaxonomy, chemotaxonomy, and nomenclature. Paleobotany and fossil pollen. Checklists of plants.

4015 Plant ecology

Interrelationships of plants with their environment. Includes forest ecology (forest types), indicator plants, plant associations, vegetation.

For environmental biology see 4030-4045.

4020 Plant morphology, anatomy and cytology

Includes histology, teratology, ultrastructure.

Includes forest trees.

For anatomy of wood see 3520.

4025 Plant genetics and breeding

Includes cytogenetics. Breeding for disease resistance; breeding for insect resistance. Double index breeding for disease or insect resistance.

For forest tree genetics and breeding see 3515.

For physiology of plant reproduction see 4030-4045.

4030 Plant physiology and biochemistry - general

Growth and growth regulators. Nutrition and nutritional deficiencies. Pollination, metabolism, transpiration, etc. Physiological effect of environmental factors; hardiness, etc. Tissue culture.

Includes miscellaneous economic plants. (For list see 4060)  
Includes any plants of unknown use.

General material relating to more than one category of crops.  
For deficiency diseases see 4520.

4035 Physiology and biochemistry of field crops

Same as 4030

For list of plants see 4050.

4040 Physiology and biochemistry of horticultural crops

Same as 4030

For list of plants see 4055.

4045 Physiology and biochemistry of forest trees

Same as 4030.

4050 Field crops - culture (from planting to harvesting)

Agronomy; varieties, and yields. Crop rotation. Management of ranges, pastures and meadows, grazing practices. Defoliant as harvesting aid.

Grain crops, forage crops, grasses, edible oil crops, cotton and other fiber crops, sugar crops, tobacco, peanuts, soybeans and other field crops.

A number of crops can be placed here or in horticultural crops

depending on their use: e.g., broad beans, olives, coconuts, turnips, beets, etc.

Grazing practices and range management may be double indexed to 2515.

4055 Horticultural crops - culture (from planting to harvesting)

Horticulture; varieties, and yields. Crop rotation. Orchards, nurseries, gardens. Landscaping; highway beautification. Defoliant as harvesting aid.

Citrus, tropical, subtropical, deciduous, and small fruits; nut crops; vegetable crops; root and tuber crops (includes cassava). Shade trees and ornamental plants. Turf and golf greens, roadside plantings.

Includes harvesting of wild berries, nuts, mushrooms etc.

4060 Miscellaneous economic plants - culture (from planting to harvesting)

Varieties and yields.

Beverage plants, flavoring, essential oil, hops, bamboo, rubber plants, pigment, tannin, tung oil and other industrial oil plants, drug plants, divinatory plants, plant sources of insecticides, honey plants, etc.

There is no general category for culture so if more than one crop category is mentioned the item is assigned to the most important category or each crop is indexed.

Plant Diseases, Insect Pests, and Control

4505 Plant fungus diseases and control

Includes diseases in storage.

Includes forest trees.

Double index when insect vector is known.

For wood rotting fungi see 3520.

4510 Plant bacterial diseases and control

Includes diseases in storage.

Includes forest trees.

Double index when insect vector is known.

4515 Plant virus diseases and control

Includes diseases in storage.

Includes forest trees.

Includes mycoplasmas.

Double index when insect vector is known.

4520 Miscellaneous plant diseases, injuries and control

Nematodes (includes nematodes of forest trees), physiological diseases, deficiency diseases; injuries caused by weather and equipment; plant protection, including irrigation and wind machines; plant quarantine; animal pests (other than insect) of plants; pesticide toxicity to plants; radioactive contamination of plants; nematocides, rodenticides, molluscicides, and other agents used in control. General material on all diseases and pests of a plant or plants.

For free-living soil nematodes see 6005.

For injuries of forest trees see 3505.

Pollution damage may be double indexed to 6505.

Includes items covering more than one disease category.

4525 Weeds and weed control

Occurrence and distribution of weeds.

Weed control: chemical, cultural, and biological. Parasitic and poisonous plants.

For effect of poisonous plants on animals see 3020.

For physiological effect of herbicides see also 4032-4045.

For toxic effects of herbicides on organisms other than weeds see appropriate specific categories and double index as needed.

4530 Insect pests and control - general, and miscellaneous plants

General items where the name of the host is not given and also where the host is any plant not covered in categories 4535 (field crops), 4540 (horticultural crops), or 4545 (forest trees and products). Includes items covering more than one crop category.

Insects as pests and their control: biological, chemical, cultural, integrated, natural, etc. Insect resistance to insecticides; toxicity of pesticides to insect pests; insecticides, acaricides, chemosterilant, attractants, repellents, hormones, and radiation sterilization; insects as vectors of diseases; host resistance.

Plant quarantine regulations covering insects only, otherwise in 4520.

See also 4535, 4540, 4545.

For physiology of insect pests see also general entomology 5005.  
For equipment for pest control see 5510.

- 4535 Insect pests and control - field crops  
For partial list of field crop types see 4050. Otherwise as 4530.
- 4540 Insect pests and control - horticultural crops  
For partial list of horticultural crop types see 4055. Otherwise as 4530.
- 4545 Insect pests and control - forest trees and wood products see 4530.
- 4550 Insect pests and control - products  
Pests attacking stored products and processed commodities, in the household, industry, warehouses, and on the farm, including control by any means.  
See 4530.  
For insect pests of forest products see 4545.
- 4555 Insect pests and control - animal and man  
Pests attacking man, domestic animals, birds, and wildlife, including control by any means.  
See 4530.  
Double index insects as vectors of disease to the disease if livestock are involved.
- 4560 Pesticides - general  
General items on pesticides which cover more than one specific group of pesticides and items which mention a pesticide or pesticides but no specific host or insect.  
Industry, technology, prices.  
Toxicity and harmful side effects to man, birds, wildlife, fish, beneficial insects.  
Double index toxicity to honey bees to 5015.  
Residues and tests for residues. Double index residues in food to 1505, in feed to 2035.  
For toxicity and harmful effect to insect pests see 4530-4555.  
For toxicity and harmful effect to livestock see 3020.  
For toxicity and harmful effect to plants see 4520.  
If a pesticide is not in a 4505-4555 or 3020 category it is placed here and double indexed as needed.

## Entomology

### 5005 General entomology

Biology, anatomy, cytology, histology, morphology including teratology, genetics, physiology including metabolism, biochemistry, ecology. General pathology. Insect other than honey bees as pollinators. Articles on pollination may be double indexed to plant physiology categories 4030-4045. Paleoentomology.

Includes: Insecta, Myriopoda, (Diplopoda, Pauropoda, Chilopoda, Symphyla), Arachnida, Isopoda (terrestrial only), and Onychophora.

### 5010 Taxonomic entomology

Systematic arrangement of insects into a system which exhibits their relationship to each other and their places in a natural classification. Includes descriptive and geographic entomology.

### 5015 Apiculture and sericulture

Honey bee culture, breeding, biology, pests, and pathology; honey bees as pollinators. Includes *Apis mellifera* (or *mellifica*), *A. dorsata*, *A. florea*, *A. indica*, *A. mellifera adansonii* (African bee), etc.

For products of the hive see 2005.

Silkworm culture, breeding, biology, and pathology. Includes *Bombyx mori*, *Anthereae pernyi*, *Samia cynthia ricini*, etc.

For silk see 2005.

Includes beekeeping and silkworm culture equipment.

## Agricultural Engineering

### 5505 Agricultural engineering and farm structures

General articles on agricultural engineering: associations, history, education, biographies, etc.

Structures: design and construction of structures such as farmhouses, utility buildings, including barns, silos, sheds, greenhouses, plastic structures, and others. Foundations, maintenance. Farm beautification. Drainage and irrigation structures. Water supply systems. Sewage and waste disposal systems. Walls and fences. Structural equipment, materials, and supplies. Excavation and earth moving equipment, hoisting and conveying equipment.

Safety engineering: fire fighting equipment, fire-detection equipment, accident prevention, safety devices.

For forest fire-fighting equipment see 3505.

Power sources: electrical, electronic, sonic, solar, gas, water,

wind, thermal, mechanical. Capacitors, batteries, nuclear power conversion. Rural electrification, public utilities, heating, lighting, power plant, telephones. Electrical and electronic engineering.

For use of wind machines in frost protection see 4520.

5510 Farm equipment

Machines and machine elements for field preparation, planting, fertilizing, cultivation, harvesting, loading, transportation, related handling and storage, including container and packaging equipment and other processing equipment used on the farm. Pest and disease control equipment, including sprayers and dusters. Livestock and dairy equipment. Special purpose equipment and tractors, accessories, etc. Mechanical engineering. Drainage and irrigation equipment.

Includes repair and maintenance.

For logging equipment see 3520.

For beekeeping equipment see 5015.

For equipment for processing farm products see 2005-2035.

For laboratory or research equipment see the specific subject category.

Soil and Water Resources Management

6005 Soil Science

Soil physics: soil mechanics; physical properties of soil, structure, porosity, moisture, aeration, temperature, etc.

Soil chemistry and mineralogy: electrolytes, clay minerals, base and anion exchange, chemical composition, fixation of phosphorus, potassium, etc. Nitrogen, sulfur, and other elements from precipitation; chelates, frits. Leaching, soil testing. Saline soils, salts in soils, hydrogen-ion concentration.

Soil biology: soil fauna, including bacteria, fungi, protozoa, and nematodes. Microbiological activity; decomposition of organic matter. Enzymes, nitrification, denitrification, ammonification, nitrogen fixation, legume inoculation, nitrogen fixing bacteria: Rhizobium, Azotobacter, etc. when not related to plant physiology. Soil-plant-animal relationships.

Soil classification and surveys: genesis, formation, intrinsic properties. Systematic grouping of soils into categories by constituents of types. Soil surveys and mapping.

Includes forest soils.

For soil borne pathogens see the specific disease category.

For pesticides in soils see 4560.



6010 Soil improvement materials

Organic and inorganic materials applied to soil and water to provide plant nutrients and to increase growth and yields. Chemical fertilizers: nitrogen, phosphorus, and potassium; macronutrient and micronutrient element materials. Bacterial fertilizers, including azotobacterin and phosphorobacterin. Manures and composts. Soil conditioners and amendments; green manures and cover crops. Industrial waste as fertilizers, sewage, sludge. Foliar diagnosis and placement methods for fertilizers.

Fertilizer industry, technology, statistics, prices and trade.

Includes forest fertilizing.

Includes tables of yields.

Sewage or waste water irrigation goes here or in 6020 accord to main use.

For effect of fertilizer on plant growth and development see 4030-4045.

For mulches see 6015.

6015 Soil resources and management

Soil as a natural and an economic resource. Preservation of soil resources and conservation in general; maintenance and improvement of fertility and productivity of soils. Protective measures and technical practices designed to prevent or reduce soil erosion and soil depletion; land reclamation, terracing, contouring, polders, tillage, fallowing, mulching, dry farming.

For soil pollution see 6505.

6020 Water resources and management

Hydrology as related to agriculture. Water supply, conservation, quality, and management practices. Snow surveys. Design and method of drainage, irrigation, desalinization, flood control.

Includes forest irrigation and drainage.

For drainage, irrigation and flood control equipment see 5510. For drainage, irrigation and flood control structures see 5505.

For water pollution see 6505.

General Natural Resources and Environmental Pollution

6505 General natural resources and Environmental Pollution

General natural resources, too broad for 6015 or 6020. General recreational use.

Animal wastes, sediment, plant nutrients, inorganic salts and minerals, forest and crop residues, agricultural processing wastes, smokes, dusts, other air pollutants, eutrophication.

All pollution goes here--not in 6015 or 6020.

For utilization or recycling of agricultural wastes or residues see specific subject category or double index.

For pesticides pollution see 4560 or double index.

#### Auxiliary Categories

- 7005 Life Sciences
- 7505 Physical sciences and mathematics
- 8005 Chemistry
- 8505 Technology
- 9005 Economics and administration
- 9505 Social sciences and humanities
- 9705 Information science

FNIC Category Codes (1973-1978)

1505 Consumer Education

Consumer Economics, Consumer Protection, Open Dating of Food

1510 Nutritional Science and Nutrition Education

Diets, food analysis, food and/or nutrition related diseases or disorders, food habits, food science, health, malnutrition, nutritional surveys, general works on nutrition education.

1520 History

Historical works tracing the history of food programs, general works on foods and the food service industry, food problems.

1525 Food Standards and Legislation

Food grades, food standards, labeling, food and nutrition related legislation

1530 Management and Administration

Administration, Computer applications, Contracts, Financial management, Food Service management, Personnel Management, Marketing, Food Preference Surveys, Public Relations.

1535 Education and Training

Adult Education, Career Education, Curriculum, Educational Planning, Educational Programs, Audiovisual Aids, Teaching Techniques, Personnel Training, In-service Education, Vocational Guidance.

1540 Menu Planning

Cycle Menu, Menu Design, Meal Management, Automated Menu Planning

1545 Food Preparation and Production

Quantity Food Preparation, Food Delivery Systems, Weights and Measures, Merchandising.

1550 Equipment

Cooking Equipment, Cleaning Equipment, Facilities Planning and Design, Waste Disposal Equipment, Equipment Standards, Equipment Storage

1555 Sanitation and Safety

Food Sanitation, Equipment Sanitation, Pest control, Hygiene, Safety, Accident Prevention, Food Borne Illness

1560 Food Technology

Food Packaging, Food Processing, Food Preservation, New Products

1565 Programs-General

International, National, State, and Local Programs, Food Programs,  
Federal Programs

1570 Recipes

Cookery native to a specific country or locale, the art of cooking,  
recipes

1575 Reference Materials

Directories, Dictionaries, Statistical Data, Food Composition Tables,  
Information Science

1580 Purchasing, Receiving and Storage

Care and Handling of Food, Food Selection, Food Storage, Food Delivery,  
Purchasing of Food and Equipment

FNIC Category Codes (1979)

0505 General Agriculture

Agricultural History, Techniques and methods of agricultural research, U.S. & world agriculture (general)

1020 Agriculture: Production, Distribution

Advertising, Children, Television, Consumer Preferences, Consumer price index (CPI), Consumer purchasing power, Food coops, Food costs, Food economics, Gallop polls, Marketing, Supply and demand, Prices, Trade, Transportation

1025 Statistical data & methodology

Agricultural statistical methods and theory

1030 Outlook, Policies, Programs

Dietary goals, Food supply problems, Foreign aid, International and national food and nutrition programs, National nutrition policy, World hunger, World health

1505 Consumer Protection

Child, T.V.-FTC, Consumer oriented research on food (dealing with protection), Food-borne illness, Food safety, Food standards: grading, labeling, Fraud, Inspection standardization, Open-dating, Public health aspects, Quality control. Sanitation and safety, Toxicants occurring naturally in foods

1510 Human Nutrition

Anthropology, Dietary surveys, Food attitudes (behavioral, psychological, social aspects), Food consumption of populations, Food fads, Food habits, General human nutrition, Health foods, History of food, Nutritional status of populations, Vegetarianism

1511 Nutrition and Health Education

Children's books (food & cooking), Curricula, Dental health education, Evaluation of nutrition education programs, Food groups, Nutrition educational activities (games, posters, etc.), Nutrition education programs, Nutrition facts, Professional education in nutrition, Teaching methods, Teacher references, Nutrition textbooks

1512 Physiology of Human Nutrition

Anthropometry, Breast feeding, Clinical tests, Digestion, Growth, Hunger, Metabolism, Nutrition in the life cycle (maternal, infants, children, adults, elderly), Thirst, Utilization of nutrients

1513 Diet and Diet-Related Diseases

Alcohol, Balanced diet, Deficiencies, Diabetes, Diets for athletes, Diet therapy, Fiber, Food allergies, Human diet in relation to health and disease, Malnutrition (individual), Nutrient requirements,

Nutrition standards, Obesity, Parenteral feeding, Preventive medicine related to nutrition, Laboratory animal research related to diet or diet-related disease and disorders, RDA's, Special diet cookbooks, Special diets related to special conditions, Vegetarian diets, Weight control

1514 Food Composition

Analysis testing, Caloric value, Chemical analysis of foods, Constituents and composition of foods, Laboratory experiments on foods and nutrients, Nutrient tables, Nutritive value, PER (Protein efficiency ratio), Quality of food (general), Specific nutrients, Taste quality

1515 Home Economics (other than nutrition and consumer protection)

Child care, Consumer education, Consumer pamphlets of food, Cookbooks, Cookery, Energy conservation in the home, Family living, Food buying (home), Food coops (specific), Food costs, Food instruction, Home food preparation, Household accounts, Household equipment, Infant food preparation, Menu planning, Metrics, Nutrition labeling education

1516 Food Service Management

Energy conservation in institutional settings (layout and facilities), Food service sanitation, Institutional administration, Quantity food equipment, Quantity food menu planning, Quantity food purchasing, Quantity food training, Quantity recipes

1525 Legislation

Hearings, law, regulations

1535 Education, Extension, Career Development

Adult education, Career education, Competency-based education, Curriculum education planning, Curriculum guides, Educational methods, Evaluation of educational programs (general), General resource centers, Publication source lists, Programs, State plans, Training extension nutrition program aides, Use of audio-visual materials, Youth advisory councils

1565 U.S. Nutrition Programs (Specific)

Child nutrition, EFNEP, Food stamps, Head Start, Program evaluation, Title VII (elderly), WIC

2005 Food Science and Agricultural Products

Artificial foods, Beneficial micro-organisms, Equipment and processing, Fabricated foods, Fermentation processes, Fish, Food processing, Packaging, Preservation and storage, Techniques, Technologies applied to the conversion of primary products into food for man

2010 Dairy Products

2015 Livestock Products

2020 Poultry Products

2025 Field Crop Products

4055 Horticultural Crops

Home gardening

- 5505 Energy sources and Production
- 6505 Conservation, Ecology, Pollution
- 7005 Life Sciences
- 7505 Physical Sciences and Mathematics
- 8005 Chemistry
- 9005 Economics and Administration
  - Communication, Computer applications, Economic forecasting, Financial management, Goal setting, Management education, Motivation, Organization, Performance appraisal, Personnel management, Planning meetings, Problem solving, Supervision, Systems analysis, Time management
- 9505 Social Sciences and Humanities
  - Anthropology, Psychology, Sociology
- 9705 Information Science
  - Documentation, Data bases

**AGRICOLA SUBJECT CATEGORY CODES 1980-Present**

A000 Agriculture (General)  
A500 Agricultural Research and Methodology  
B100 Geography  
B200 Meteorology and Climatology  
B500 Agricultural History and Biography  
C100 Agricultural Education and Training (Not Extension)  
C200 Extension and Advisory Work (Non U.S.)  
C210 U.S. Extension Services  
D100 Administration of Agricultural Agencies and Organizations  
D500 Laws and Regulations  
E100 Agricultural Economics (General)  
E110 Land Development, Land Reform and Utilization (Macroeconomics)  
E130 Agricultural Production (Macroeconomics)  
E200 Farm Organization and Management (Microeconomics)  
E300 International Agricultural Development Aid Programs  
E310 U.S. Food and Nutrition Programs  
E400 Cooperatives  
E500 Rural Sociology  
E550 Rural Development  
E560 Rural Community Public Services  
E700 Distribution and Marketing of Agricultural Products  
E710 Grading, Standards, Labeling  
E720 Consumer Economics  
F000 Plant Science (General)  
F100 Plant Production (General)  
F110 Plant Production (Horticultural Crops)  
F120 Plant Production (Field Crops)  
F130 Plant Production (Range and Pasture Crops)  
F140 Plant Production (Miscellaneous Crops)  
F200 Plant Breeding and Genetics  
F300 Plant Ecology  
F400 Plant Structure  
F500 Plant Nutrition  
F600 Plant Physiology and Biochemistry  
F700 Plant Taxonomy, Collection, and Geography  
F800 Protection of Plants  
F820 Pests of Plants (Animals)  
F821 Pests of Plants (Insects and Other Arthropods)  
F822 Pests of Plants (Nematodes)  
F830 Plant Diseases (General)  
F831 Plant Diseases (Fungi)  
F832 Plant Diseases (Bacterial)  
F833 Plant Diseases (Viral)  
F840 Plant Diseases (Physiological)  
F841 Miscellaneous Plant Disorders and Injuries  
F850 Protection of Plant Products (General)  
F851 Protection of Plant Products (Insects and Other Arthropods)  
F900 Weeds and Other Noxious Plants  
H000 Pesticides (General)  
J000 Soil Sciences  
J100 Soil Biology  
J200 Soil Chemistry and Physics  
J300 Soil Classification and Genesis  
J400 Soil Surveying and Mapping  
J500 Soil Fertility, Fertilizers, and Manures  
J600 Soil Resources and Management  
J700 Soil Cultivation and Cropping Systems  
J710 Alternative Farming Systems



J800 Soil Conservation  
 K000 Forestry  
 K001 Forestry Related  
 K100 Forestry Production (General)  
 K110 Forestry Production (Natural Regeneration)  
 K120 Forestry Production (Artificial Regeneration)  
 K130 Forestry Production (Harvesting and Engineering)  
 K200 Forest Management  
 K250 Forest Mensuration and Description  
 K500 Forest Products (General)  
 K510 Forest Products (Wood)  
 K520 Forest Products (Composite and Reconstituted Wood)  
 K530 Forest Products (Pulp and Paper)  
 K540 Forest Products (Chemicals)  
 K590 Forest Products (Miscellaneous)  
 K800 Forest Injuries and Protection  
 K810 Forest Fire Management  
 L000 Animal Science  
 L001 Entomology Related  
 L002 Apiculture Related  
 L003 Sericulture Related  
 L100 Animal Production  
 L105 Animal Welfare  
 L110 Laboratory and Experimental Animals  
 L200 Animal Breeding and Genetics  
 L210 Animal Reproduction  
 L300 Animal Ecology and Behavior  
 L400 Animal Structure  
 L500 Animal Nutrition  
 L600 Animal Physiology and Biochemistry  
 L700 Animal Taxonomy and Geography  
 L800 Veterinary Science  
 L810 Veterinary Pharmacology, Toxicology, and Immunology  
 L820 Pests of Animals (General)  
 L821 Pests of Animals (Insects and Other Arthropods)  
 L822 Pests of Animals (Helminths)  
 L823 Pests of Animals (Protozoa)  
 L830 Animal Diseases (General)  
 L831 Animal Diseases (Fungal)  
 L832 Animal Diseases (Bacterial)  
 L833 Animal Diseases (Viral)  
 L840 Animal Diseases (Physiological)  
 L841 Animal Disorders and Injuries  
 L850 Protection of Animal Products (General)  
 L851 Protection of Animal Products (Insects and Other Arthropods)  
 M000 Aquatic Sciences  
 M001 Aquatic Sciences Related  
 M110 Fisheries  
 M120 Aquaculture (Animals)  
 M130 Aquaculture (Plants)  
 M210 Fisheries Management  
 M220 Aquaculture Management  
 M300 Aquatic Biology and Ecology (General)  
 M310 Aquatic Biology and Ecology (Animals)  
 M320 Aquatic Biology and Ecology (Plants)  
 M400 Oceanography  
 M500 Limnology  
 N000 Agricultural Engineering and Safety  
 N100 Farm Structures  
 N200 Farm and Structural Equipment

P000 Natural Resources  
 P010 Invasive Species  
 P050 Conservation and Wildlife  
 P100 Energy Resources (General)  
 P110 Conservation and Use of Energy  
 P120 Biomass Energy Sources  
 P130 Non-biomass Sources of Energy  
 P140 Consequences of Energy Production and Use  
 P200 Water Resources and Management  
 P210 Irrigation and Drainage  
 P300 Land Resources  
 Q000 Food Science and Food Products  
 Q001 Food Science and Food Products - Dairy Products  
 Q002 Food Science and Food Products - Livestock Products  
 Q003 Food Science and Food Products - Poultry Products  
 Q004 Food Science and Food Products - Field Crop Products  
 Q005 Food Science and Food Products - Horticultural Crop Products  
 Q006 Food Science and Food Products - Fish and Aquatic Products  
 Q100 Food Processing (General)  
 Q101 Food Processing (General) - Dairy Products  
 Q102 Food Processing (General) - Livestock Products  
 Q103 Food Processing (General) - Poultry Products  
 Q104 Food Processing (General) - Field Crop Products  
 Q105 Food Processing (General) - Horticultural Crop Products  
 Q106 Food Processing (General) - Fish and Aquatic Products  
 Q110 Food Storage  
 Q111 Food Storage - Dairy Products  
 Q112 Food Storage - Livestock Products  
 Q113 Food Storage - Poultry Products  
 Q114 Food Storage - Field Crop Products  
 Q115 Food Storage - Horticultural Crop Products  
 Q116 Food Storage - Fish and Aquatic Products  
 Q120 Microbiology of Food Processing  
 Q121 Microbiology of Food Processing - Dairy Products  
 Q122 Microbiology of Food Processing - Livestock Products  
 Q123 Microbiology of Food Processing - Poultry Products  
 Q124 Microbiology of Food Processing - Field Crop Products  
 Q125 Microbiology of Food Processing - Horticultural Crop Products  
 Q126 Microbiology of Food Processing - Fish and Aquatic Products  
 Q200 Food Contamination and Toxicology  
 Q201 Food Contamination and Toxicology - Dairy Products  
 Q202 Food Contamination and Toxicology - Livestock Products  
 Q203 Food Contamination and Toxicology - Poultry Products  
 Q204 Food Contamination and Toxicology - Field Crop Products  
 Q205 Food Contamination and Toxicology - Horticultural Products  
 Q206 Food Contamination and Toxicology - Fish and Aquatic Products  
 Q300 Food Packaging (General)  
 Q301 Food Packaging (General) - Dairy Products  
 Q302 Food Packaging (General) - Livestock Products  
 Q303 Food Packaging (General) - Poultry Products  
 Q304 Food Packaging (General) - Field Crop Products  
 Q305 Food Packaging (General) - Horticultural Crop Products  
 Q306 Food Packaging (General) - Fish and Aquatic Products  
 Q400 Food Additives (General)  
 Q401 Food Additives (General) - Dairy Products  
 Q402 Food Additives (General) - Livestock Products  
 Q403 Food Additives (General) - Poultry Products  
 Q404 Food Additives (General) - Field Crop Products  
 Q405 Food Additives (General) - Horticultural Crop Products  
 Q406 Food Additives (General) - Fish and Aquatic Products

Q500 Food Composition and Quality  
 Q501 Food Composition and Quality - Dairy Products  
 Q502 Food Composition and Quality - Livestock Products  
 Q503 Food Composition and Quality - Poultry Products  
 Q504 Food Composition and Quality - Field Crop Products  
 Q505 Food Composition and Quality - Horticultural Crop Products  
 Q506 Food Composition and Quality - Fish and Aquatic Products  
 R000 Feed Products  
 R100 Feed Processing and Storage  
 R110 Microbiology of Feed Processing  
 R200 Feed Contamination and Toxicology  
 R300 Feed Composition and Quality  
 S000 Agricultural Products (Non-food General)  
 S100 Agricultural Products (Non-food Animal)  
 S200 Agricultural Products (Non-food Plant)  
 T000 Human Nutrition  
 T100 Nutrition and Health Education  
 T120 Food Service and Management  
 T200 Physiology of Human Nutrition  
 T300 Diet and Diet-Related Diseases  
 U000 Home Economics and Human Ecology  
 U100 Housing, Home Furnishings, and Surroundings  
 U200 Household Textiles and Clothing  
 U300 Family Economics and Management  
 U400 Family Relationships and Individual Development  
 U500 Elementary, Secondary, and Higher Education in Home Economics  
 U600 Home Food and Meal Preparation  
 V000 Human Parasitology  
 V820 Parasites of Humans (General)  
 V821 Parasites of Humans (Insects and Other Arthropods)  
 V822 Parasites of Humans (Helminths)  
 V823 Parasites of Humans (Protozoa)  
 W000 Pollution  
 X000 Auxiliary Disciplines  
 X100 Mathematics and Statistics  
 X150 Bioinformatics, Computational Biology, Biometrics, Biostatistics,  
 Biomathematics  
 X200 Computer and Library Sciences  
 X250 Library and Information Science  
 X300 Life Sciences  
 X320 General Genetics, Genetic Engineering, Biotechnology, and Genomics  
 X330 Ecology and Environment  
 X340 Molecular Biology, Biochemistry, and Biophysics  
 X350 Microbiology, Bacteriology, and Virology  
 X380 Human Medicine, Health, and Safety  
 X385 Public Health and Epidemiology  
 X387 Occupational and Industrial Safety and Hygiene  
 X400 Physical Sciences  
 X500 Chemistry  
 X600 Technology  
 X620 Photography, Remote Sensing, GIS, and Geospatial  
 X650 Technology Transfer  
 X700 Economics and Management  
 X750 Management and Decision Making  
 X800 Social Sciences, Humanities, and Education  
 X840 General Political Science