Pattern Headings: Animals  H 1147

Pattern:  Fishes; Cattle

Types of Headings Covered by the Pattern:  Headings for individual animals and groups of animals at all taxonomic levels, established using either common or scientific names, including animals in their natural or wild state, and those raised or cared for by humans. The pattern also covers headings for extinct and fossil animals.  Examples: Aedes aegypti; Aquarium fishes; Bigeye tuna; Canada goose; Dinosaurs; Diptera; Dodo; Echinodermata, Fossil; Honeybee; Laboratory animals; Marine animals; Mollusks; Pets; Predatory animals; Sheep. Included are individual breeds or groups of domestic animals, for example, Tennessee walking horse; Poodles; and headings for age and sex groups, for example, Chicks; Foals; Cows. The general headings Animals; Domestic animals; and Livestock are excluded. The category also does not include individually named animals such as Seattle Slew (Race horse) or Morris (Cat). The subdivisions below are also not used under phrase headings of the type [animal] as laboratory animals or [animal] as pets. Instead, these phrase headings are assigned along with headings of the type [animal]–[appropriate subdivision from the list below]. Also excluded are headings for individual microorganisms. If a subdivision from this list is needed for use under a heading for an individual microorganism, it is established editorially rather than assigned as a free-floating subdivision. The category is represented by two pattern headings: Fishes and Cattle. Establish subdivisions appropriate for animals in general under Fishes; establish subdivisions specific to domestic animals under Cattle. Subdivisions having restricted use or needing explanation are explained in endnotes.

Note:  In August 1993, the pattern heading list for domestic animals, H 1148, was discontinued. The subdivisions on that list were integrated into this list, and the scope of coverage of this list was expanded to include domestic animals.

Conflicts:  Any subdivision listed here can be used as a free-floating subdivision under any heading belonging to the category if it is appropriate and no conflict exists in the subject authority file. Subject authority records may exist for headings employing variant phrases or subdivisions equivalent to subdivisions on this list.
LC practice:
If an exceptional variant form is to be retained, make a UF reference from the equivalent free-floating subdivision form following the procedures in H 195 if the reference does not yet exist. Otherwise, submit a proposal to change the variant form along with all bibliographic records requiring correction following the procedures in H 193.

Note: Most form subdivisions coded $v in this list may also be used as topical subdivisions coded $x when assigned to works about the form (see H 1075, sec. 1.d.).

$s_x$ Abnormalities$^1$ (May Subd Geog)
$s_x$ Adaptation (May Subd Geog)
$s_x$ Age (May Subd Geog)
$s_x$ Age determination (May Subd Geog)
$s_x$ Aging
$s_x$ Aging $s_x$ Prevention
$s_x$ Anatomy
$s_x$ Artificial insemination (May Subd Geog)
$s_x$ Artificial spawning (May Subd Geog)
$s_x$ Autopsy (May Subd Geog)
$s_x$ Behavior (May Subd Geog)
$s_x$ Behavior $s_x$ Climatic factors (May Subd Geog)
$s_x$ Behavior $s_x$ Endocrine aspects
$s_x$ Behavior $s_x$ Evolution (May Subd Geog)
$s_x$ Behavior $s_x$ Genetic aspects
$s_v$ Biography
$s_x$ Biological control (May Subd Geog)
$s_x$ Boning (May Subd Geog)
$s_x$ Breeding$^2$ (May Subd Geog)
$s_x$ Breeding $s_x$ Selection indexes
$s_x$ Cadmium content (May Subd Geog)
$s_x$ Cannibalism (May Subd Geog)
$s_x$ Carcasses (May Subd Geog)
$s_x$ Carcasses $s_x$ Biodegradation (May Subd Geog)
$s_x$ Carcasses $s_x$ Grading (May Subd Geog)
$s_x$ Carcasses $s_x$ Handling (May Subd Geog)
$s_x$ Cardiovascular system
$s_v$ Catalogs and collections (May Subd Geog)
$s_x$ Chemical defenses (May Subd Geog)
$s_x$ Chemical ecology (May Subd Geog)
$v$ Classification
$sx$ Classification $sx$ Molecular aspects
$sx$ Climatic factors (May Subd Geog)
$sx$ Cloning (May Subd Geog)
$sx$ Collection and preservation (May Subd Geog)
$sx$ Collection and preservation $sx$ Law and legislation$^3$ (May Subd Geog)
$sx$ Collection and preservation $sx$ Licenses (May Subd Geog)
$sx$ Colonization (May Subd Geog)
$sx$ Color (May Subd Geog)
$sx$ Composition
$sx$ Condition scoring (May Subd Geog)
$sx$ Conformation (May Subd Geog)
$sx$ Conservation (May Subd Geog)
$sx$ Conservation $sx$ Law and legislation$^3$ (May Subd Geog)
$sx$ Control (May Subd Geog)
$sx$ Control $sx$ Environmental aspects (May Subd Geog)
$sx$ Control $sx$ Law and legislation$^3$ (May Subd Geog)
$sx$ Cooperative marketing (May Subd Geog)
$sx$ Counting (May Subd Geog)
$sx$ Cultural control (May Subd Geog)
$sx$ Cytogenetics
$sx$ Cytology
$sx$ Defenses (May Subd Geog)
$sx$ Detection (May Subd Geog)
$sx$ Development (May Subd Geog)
$sx$ Development $sx$ Endocrine aspects
$sx$ Digestive organs
$sx$ Disease resistance (May Subd Geog)
$sx$ Diseases$^4$ (May Subd Geog)
$sx$ Diseases $sx$ Alternative treatment$^4$ (May Subd Geog)
$sx$ Diseases $sx$ Chemotherapy$^4$ (May Subd Geog)
$sx$ Diseases $sx$ Chiropractic treatment$^4$ (May Subd Geog)
$sx$ Diseases $sx$ Climatic factors (May Subd Geog)
$sx$ Diseases $sx$ Diagnosis$^4$ (May Subd Geog)
$sx$ Diseases $sx$ Diet therapy$^4$ (May Subd Geog)
$sx$ Diseases $sx$ Epidemiology$^4$ (May Subd Geog)
$sx$ Diseases $sx$ Genetic aspects$^4$
H 1147  Pattern Headings: Animals

sx Diseases sx Homeopathic treatment\(^4\) (May Subd Geog)
sx Diseases sx Molecular aspects\(^4\) (May Subd Geog)
sx Diseases sx Nursing\(^4\) (May Subd Geog)
sx Diseases sx Nutritional aspects\(^4\) (May Subd Geog)
sx Diseases sx Prevention\(^4\)
sx Diseases sx Treatment\(^4\) (May Subd Geog)
sx Dispersal  (May Subd Geog)
sx Dissection  (May Subd Geog)
sx Dormancy\(^5\)  (May Subd Geog)
sx Ecology  (May Subd Geog)
sx Economic aspects  (May Subd Geog)
sx Ecophysiology  (May Subd Geog)
sx Effect of acid precipitation on  (May Subd Geog)
sx Effect of aircraft on  (May Subd Geog)
sx Effect of altitude on\(^5\)  (May Subd Geog)
sx Effect of chemicals on\(^6\)  (May Subd Geog)
sx Effect of cold on  (May Subd Geog)
sx Effect of contaminated sediments on  (May Subd Geog)
sx Effect of dams on  (May Subd Geog)
sx Effect of dredging on  (May Subd Geog)
sx Effect of drought on  (May Subd Geog)
sx Effect of drugs on\(^6\)  (May Subd Geog)
sx Effect of energy development on  (May Subd Geog)
sx Effect of exotic animals on  (May Subd Geog)
sx Effect of fires on  (May Subd Geog)
sx Effect of fishing on\(^5\)  (May Subd Geog)
sx Effect of floods on  (May Subd Geog)
sx Effect of forest management on  (May Subd Geog)
sx Effect of global warming on  (May Subd Geog)
sx Effect of habitat modification on  (May Subd Geog)
sx Effect of heavy metals on  (May Subd Geog)
sx Effect of human beings on  (May Subd Geog)
sx Effect of hunting on  (May Subd Geog)
sx Effect of hydrogen sulfide on  (May Subd Geog)
sx Effect of insecticides on\(^6\)  (May Subd Geog)
sx Effect of light on  (May Subd Geog)
sx Effect of logging on  (May Subd Geog)
sx Effect of magnetism on  (May Subd Geog)
Effect of metals on (May Subd Geog)
Effect of mining on (May Subd Geog)
Effect of music on (May Subd Geog)
Effect of noise on (May Subd Geog)
Effect of odors on (May Subd Geog)
Effect of off-road vehicles on (May Subd Geog)
Effect of oil spills on (May Subd Geog)
Effect of pesticides on (May Subd Geog)
Effect of poaching on (May Subd Geog)
Effect of pollution on (May Subd Geog)
Effect of predation on (May Subd Geog)
Effect of radiation on (May Subd Geog)
Effect of radioactive pollution on (May Subd Geog)
Effect of roads on (May Subd Geog)
Effect of salt on (May Subd Geog)
Effect of sediments on (May Subd Geog)
Effect of selenium on (May Subd Geog)
Effect of sound on (May Subd Geog)
Effect of storms on (May Subd Geog)
Effect of stray currents on (May Subd Geog)
Effect of stress on (May Subd Geog)
Effect of surface active agents on (May Subd Geog)
Effect of temperature on (May Subd Geog)
Effect of turbidity on (May Subd Geog)
Effect of ultraviolet radiation on (May Subd Geog)
Effect of volcanic eruptions on (May Subd Geog)
Effect of water acidification on (May Subd Geog)
Effect of water currents on (May Subd Geog)
Effect of water levels on (May Subd Geog)
Effect of water pollution on (May Subd Geog)
Effect of water quality on (May Subd Geog)
Effect of wind power plants on (May Subd Geog)
Eggs (May Subd Geog)
Eggs sxs Counting (May Subd Geog)
Eggs sxs Dispersal (May Subd Geog)
Eggs sxs Geographical distribution
Eggs sxs Incubation (May Subd Geog)
Embryology
Pattern Headings: Animals

Embryos (May Subd Geog)
Embryos Anatomy
Effect of ultraviolet radiation on (May Subd Geog)
Effect of water quality on (May Subd Geog)
Motility
Embryos Physiology (May Subd Geog)
Transplantation (May Subd Geog)
Endocrinology
Environmental enrichment (May Subd Geog)
Equipment and supplies
Evolution (May Subd Geog)
Exercise (May Subd Geog)
Exercise Physiological aspects
Feces (May Subd Geog)
Feces Detection (May Subd Geog)
Feces Molecular aspects (May Subd Geog)
Feed utilization efficiency (May Subd Geog)
Feeding and feeds (May Subd Geog)
Feeding and feeds Climatic factors (May Subd Geog)
Feeding and feeds Contamination (May Subd Geog)
Feeding and feeds Recipes
Fertility (May Subd Geog)
Fetuses
Fetuses Anatomy
Fetuses Physiology (May Subd Geog)
Flight (May Subd Geog)
Flight Physiological aspects
Fluorescence (May Subd Geog)
Food (May Subd Geog)
Fractures (May Subd Geog)
Functional genomics
Gastrointestinal system
Generative organs
Genetic engineering (May Subd Geog)
Genetics
Genome mapping (May Subd Geog)
Geographical distribution
Geographical distribution Climatic factors (May Subd Geog)
Pattern Headings: Animals  H 1147

- Germplasm resources (May Subd Geog)
- Cryopreservation (May Subd Geog)
- Microbiology (May Subd Geog)
- Grading (May Subd Geog)
- Grooming (May Subd Geog)
- Growth
- Habitat (May Subd Geog)
- Conservation (May Subd Geog)
- Habitat suitability index models (May Subd Geog)
- Habitations (May Subd Geog)
- Handling (May Subd Geog)
- Health (May Subd Geog)
- Heavy metal content (May Subd Geog)
- Hibernation (May Subd Geog)
- Histology
- Histopathology
- Home range (May Subd Geog)
- Homing (May Subd Geog)
- Host plants (May Subd Geog)
- Housing (May Subd Geog)
- Air conditioning (May Subd Geog)
- Decoration (May Subd Geog)
- Design and construction (May Subd Geog)
- Disinfection (May Subd Geog)
- Environmental engineering (May Subd Geog)
- Heating and ventilation (May Subd Geog)
- Insulation (May Subd Geog)
- Lighting (May Subd Geog)
- Odor control (May Subd Geog)
- Safety measures (May Subd Geog)
- Sanitation (May Subd Geog)
- Specifications (May Subd Geog)
- Waste disposal (May Subd Geog)
- Hybridization (May Subd Geog)
- Identification
- Immunology
- Genetic aspects
- Induced spawning (May Subd Geog)

Subject Headings Manual  H 1147 Page 7
August 2021
H 1147  Pattern Headings: Animals

sx Infancy  (May Subd Geog)
sx Infections 1  (May Subd Geog)
sx Infertility  (May Subd Geog)
sx Inspection  (May Subd Geog)
sx Integrated control  (May Subd Geog)
sx Judging  (May Subd Geog)
sx Jumping  (May Subd Geog)
sx Larvae  (May Subd Geog)
sx Larvae sx Behavior  (May Subd Geog)
sx Larvae sx Chemical ecology  (May Subd Geog)
sx Larvae sx Color  (May Subd Geog)
sx Larvae sx Defenses  (May Subd Geog)
sx Larvae sx Dispersal  (May Subd Geog)
sx Larvae sx Ecology  (May Subd Geog)
sx Larvae sx Effect of temperature on  (May Subd Geog)
sx Larvae sx Effect of ultraviolet radiation on  (May Subd Geog)
sx Larvae sx Effect of water pollution on  (May Subd Geog)
sx Larvae sx Effect of water quality on  (May Subd Geog)
sx Larvae sx Endocrinology
sx Larvae sx Food  (May Subd Geog)
sx Larvae sx Geographical distribution
sx Larvae sx Microbiology  (May Subd Geog)
sx Larvae sx Physiology  (May Subd Geog)
sx Law and legislation 3  (May Subd Geog)
sx Life cycles  (May Subd Geog)
sx Locomotion  (May Subd Geog)
sx Longevity  (May Subd Geog)
sx Losses  (May Subd Geog)
sx Manure  (May Subd Geog)
sx Manure sx Environmental aspects  (May Subd Geog)
sx Manure sx Handling  (May Subd Geog)
sx Marketing
sx Marketing sx Law and legislation 3  (May Subd Geog)
sx Marking 15  (May Subd Geog)
sx Mercury content  (May Subd Geog)
sx Metabolism
sx Metabolism sx Climatic factors  (May Subd Geog)
sx Metamorphosis 5  (May Subd Geog)
Pattern Headings: Animals  H 1147

sx Metamorphosis sx Endocrine aspects
sx Metamorphosis sx Genetic aspects
sx Metamorphosis sx Molecular aspects
sx Microbiology  (May Subd Geog)
sx Migration  (May Subd Geog)
sx Migration sx Climatic factors  (May Subd Geog)
sx Migration sx Endocrine aspects
sx Molecular aspects
sx Molecular genetics
sx Monitoring  (May Subd Geog)
sx Morphogenesis  (May Subd Geog)
sx Morphology
sx Mortality  (May Subd Geog)
sx Names14
sx Nervous system
sx Nervous system sx Physiology  (May Subd Geog)
sx Nests  (May Subd Geog)
sx Nests sx Abandonment  (May Subd Geog)
sx Nests sx Counting  (May Subd Geog)
sx Nomenclature15
sx Nomenclature (Popular)16
sx Nomenclature (Popular) sx French, [Italian, etc.]16
sx Nutrition  (May Subd Geog)
sx Nutrition sx Requirements  (May Subd Geog)
sx Odor  (May Subd Geog)
sx Orientation  (May Subd Geog)
sx Origin
sx Parasites  (May Subd Geog)
sx Parasites sx Biological control  (May Subd Geog)
sx Parasites sx Control  (May Subd Geog)
sx Parasites sx Control sx Environmental aspects  (May Subd Geog)
sx Parasites sx Identification
sx Parasites sx Life cycles  (May Subd Geog)
sx Parasites sx Life cycles sx Climatic factors  (May Subd Geog)
sx Parasites sx Molecular aspects
sx Parturition  (May Subd Geog)
sx Pathogens  (May Subd Geog)
sx Pedigrees
sx Performance records

Subject Headings Manual  H 1147 Page 9
August 2021
Phenology
Photographic identification
Phylogeny
Phylogeny Molecular aspects
Physiology
Political aspects
Population viability analysis
Predators of
Predators of Control
Predators of Ecology
Pregnancy
Processing
Productivity
Psychic aspects
Psychological aspects
Psychological testing
Psychology
Purchasing
Quality
Quarantine
Racial analysis
Radio tracking
Radioactive contamination
Recolonization
Reintroduction
Religious aspects
Reproduction
Reproduction Climatic factors
Reproduction Effect of altitude on
Reproduction Effect of light on
Reproduction Endocrine aspects
Reproduction Regulation
Respiration
Respiratory organs
Schooling
Seasonal distribution
Seasonal variations
Selection
Pattern Headings: Animals  H 1147

$sx$ Sense organs
$sx$ Services for  (May Subd Geog)
$sx$ Sex ratio  (May Subd Geog)
$sx$ Sexing  (May Subd Geog)
$sx$ Sexual behavior  (May Subd Geog)
$sx$ Showing  (May Subd Geog)
$sx$ Size  (May Subd Geog)
$sx$ Spawning  (May Subd Geog)
$sx$ Speciation  (May Subd Geog)
$sx$ Speed
$sx$ Spermatozoa
$sx$ Spermatozoa $sx$ Abnormalities  (May Subd Geog)
$sx$ Spermatozoa $sx$ Morphology
$sx$ Spermatozoa $sx$ Motility
$sx$ Stranding  (May Subd Geog)
$sx$ Summering  (May Subd Geog)
$sx$ Surgery  (May Subd Geog)
$sx$ Surgery $sx$ Complications  (May Subd Geog)
$sx$ Surgery $sx$ Nursing  (May Subd Geog)
$sx$ Symbolic aspects  (May Subd Geog)
$sx$ Technological innovations  (May Subd Geog)
$sx$ Territoriality  (May Subd Geog)
$sx$ Testing
$sx$ Therapeutic use  (May Subd Geog)
$sx$ Toxicology$^{20}$  (May Subd Geog)
$sx$ Training  (May Subd Geog)
$sx$ Transportation  (May Subd Geog)
$sx$ Trypanotolerance  (May Subd Geog)
$sx$ Type specimens  (May Subd Geog)
$sx$ Utilization  (May Subd Geog)
$sx$ Vaccination  (May Subd Geog)
$sx$ Variation  (May Subd Geog)
$sx$ Venom$^{20}$  (May Subd Geog)
$sx$ Venom resistance  (May Subd Geog)
$sx$ Vertical distribution  (May Subd Geog)
$sx$ Virus diseases$^1$  (May Subd Geog)
$sx$ Viruses  (May Subd Geog)
$sx$ Vocalization$^5$  (May Subd Geog)
H 1147  Pattern Headings: Animals

$\times$ Vocalization  $\times$ Regulation$^5$
$\times$ Water requirements  (May Subd Geog)
$\times$ Weight
$\times$ Wintering  (May Subd Geog)
$\times$ Wounds and injuries$^1$  (May Subd Geog)

**NOTES**

$^1$Subdivisions on this list that represent specific pathological conditions, for example, –Abnormalities, –Fractures; –Infections; –Virus diseases; –Wounds and injuries, may be further subdivided by subdivisions listed under the subdivision –Diseases, for example, –Diseases–Diagnosis; Diseases–Treatment.

$^2$Use –Breeding for the controlled mating and selection of animals by humans, usually for the purpose of improving the species or breed. Use –Reproduction for the physiological process by which animals generate offspring of the same kind.

$^3$See H 1154.5 for further subdivisions used under legal topics.

$^4$Subdivisions listed under –Diseases may also be used under subdivisions on this list that represent specific pathological conditions, for example, –Infections–Diagnosis; –Fractures–Treatment.

$^5$Not established under Fishes. Use under individual animals and groups of animals as appropriate.

$^6$Assign additional headings of the type [individual chemical] –Physiological effect for individual chemicals, drugs, insecticides, pesticides, etc.

$^7$Use –Feeding and feeds for the nutritional preparations provided for animals by humans as well as for the process of providing nourishment to them. Use –Food for the nutritional substances that animals find on their own or provide for themselves as well as for their food habits.

$^8$Use –Food for the nutritional substances animals find on their own or provide for themselves as well as for their food habits. Use –Feeding and feeds for the nutritional preparations provided for animals by humans as well as for the process of providing nourishment to them.

$^9$Use –Grooming for the human tending, cleaning, brushing, etc., of animals.

$^{10}$Use –Habitations for the natural shelters and homes that animals build for themselves, such as burrows, dens, lairs, lodges, etc. Use –Nests under nesting animals. Use –Housing for the shelters and structures that humans construct and provide for wild or domestic animals.

$^{11}$Not established under Fishes; use Fish handling instead. Use –Handling under other individual animals and groups of animals as appropriate.
12 Use –Housing for the shelters and structures that humans construct and provide for wild or domestic animals. Use –Habitations for the natural shelters and homes that animals build for themselves.

13 Not established under Fishes. Use Fish tagging instead. Use under individual animals and groups of animals as appropriate.

14 Use –Names for the history, origin, customs, etc., of selecting personal names for individual animals.

15 Use –Nomenclature for systematically derived lists of names or designations that have been formally adopted or sanctioned, or for discussions of the principles involved in the creation or application of those names to taxonomic groupings of animals.

16 Use –Nomenclature (Popular) for lists or discussions of common names for animal groupings.

17 Use –Psychological aspects for the influence of animals on the human mental condition or personality.

18 Use –Psychology for the mental processes or characteristics of animals.

19 Use –Reproduction for the physiological process by which animals generate offspring of the same kind. Use –Breeding for the controlled mating and selection of animals by humans, usually for the purpose of improving the species or breed.

20 Not established under Fishes. Established instead under Poisonous fishes. Use under individual animals and groups of animals as appropriate.

21 May be subdivided topically by a religion or Christian denomination. Editorially establish each heading of the type [animal]–Religious aspects–[name of religion or denomination]. For instructions on the use of the subdivision, see H 1998.