AGROVOC GUIDELINES

FOR ENGLISH LANGUAGE EDITORS

DRAFT: MAY 2015

These guidelines are not exhaustive. Quite a few issues are currently under discussion. If you would like to be involved in the discussion, please write us at agrovoc@fao.org. We would appreciate your contribution a lot!

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INTRODUCTION

Should I add a term or a concept? Where should I place a concept within the hierarchy? Which relation should I use to link related concepts? And for related terms? How should I write a term - lower or upper case, singular or plural etc.?

In this manual AGROVOC users are guided through the decision-making process of enriching AGROVOC, with special focus on the English version. Dedicated guidelines for other languages may be developed in the future.

For specific instructions on how to subsequently insert/update terms/concepts in VocBench, the editing tool used by AGROVOC, please consult the <u>VocBench v2.1 User manual¹</u>.

SUBJECT COVERAGE OF AGROVOC

AGROVOC covers all areas of interest to the Food and Agriculture Organization (FAO) of the United Nations, such as food, nutrition, agriculture, forestry, fisheries, scientific and common names of animals and plants, environment, biological notions, techniques of plant cultivation, etc.

CONCEPT SCHEME

AGROVOC is an RDF/SKOS-XL concept scheme. The basic notions for a concept scheme are: concepts and terms.

Concepts

Concepts are anything we want to represent or "talk about" in our domain. A concept could also be considered the set of all its labels (from now on called terms) used to express it in various languages. All concepts are identified by dereferenceable URIs (= URL), such as http://aims.fao.org/aos/agrovoc/c 12332. In SKOS, concepts are formalized as skos:Concept.

Terms

A term is any word or phrase used to label a concept in any given language.

```
[maize*@en, corn (maize)@en, maïs*@fr, ...]
maize* = the preferred term in English
corn (maize) = a non preferred term in English
maïs*@fr = the preferred term in French
```

For backward compatibility with traditional thesauri, one term is chosen as the preferred one in each language. Preferred terms are traditionally used for library indexing, while in electronic environment they are used to "name" the concept when the space is limited and only one term may be displayed.

¹ The current stable release of VocBench is version 2.3. However, the manual for version 2.1 is still valid for the functionalities typically used by editors and referred to in these guidelines. See: http://aims.fao.org/sites/default/files/VocBench_%20v2%201_user_manual_0.pdf

Relations

The structure of AGROVOC is given by the way concepts are organized by means of hierarchical and non-hierarchical relations.

In SKOS, hierarchical relations between concepts are expressed by the predicates *skos:broader, skos:narrower*. They correspond to the classical thesaurus relations broader/narrower (BT/NT).

Non-hierarchical relations express a notion of "relatedness" between concepts. AGROVOC uses the SKOS relation *skos:related* (corresponding to the classical thesaurus RT) and a specific vocabulary of relations called Agrontology².

AGROVOC also allows for relations between terms, as in the case of the following example

Food and Agriculture organization of the United Nations agrontology:hasAcronym FAO*.

Formally, relations between terms are expressed by means of SKOS-XL, an extension of SKOS.

BIBLIOGRAPHY

- Guidelines for the Construction, Format, and Management of Monolingual Controlled Vocabularies, ANSI/NISO Z39.19-2005 (R2010)
- Guidelines for the Construction, Format, and Management of MonolingualControlled Vocabularies, ANSI/ISO Z39.19-2005
- Guidelines for Multilingual Thesauri, Working Group on Guidelines for Multilingual Thesauri, Classification and Indexing Section, IFLA, April 2005
- AGROVOC Multilingual Agricultural Thesaurus, 4th ed., English version (Rome: FAO, 1999)
- Guidelines for the establishment and development of multilingual thesauri, ANSI/ISO 5964-1985
- Plant Names in Botanical Databases (Plant Taxonomic Database Standards No. 3, Version 1.00), published for the International Working Group on Taxonomic Databases for Plant Sciences (TDWG), December 1994
- <u>VocBench v2.1 User Manual</u> (Rome, FAO, 2014)

-

 $^{^2\} http://aims.fao.org/sites/default/files/uploads/file/aos/agrontology/index.htm$

F	G	F	N	Г

Concept The preferred term in square

brackets.

[Oryza*, ...]

In case it is useful to show other non-preferred terms, they are

added.

[Oryza*, rice (plant), ...]

In case it is useful to show terms in other languages, the language is

indicated by @ plus its ISO

language code.

[Oryza*@en, rice (plant)@en, Oryza*@fr, イネ属*@ja,...]

Preferred term The term in blue plus *

Oryza*

Non preferred terms

d The term in blue

rice (plant)

URIs Its abbreviated form in blue

c_1666

Relations The relation name in Italics

agrontology:hasProducts

skos:notation

Agrontology

A specific vocabulary of non-hierarchical relations developed for AGROVOC, grouped under *skos:related*.

Concept

A concept may be anything: an animal, a plant, a geographical region, a chemical element, a technique, etc. Operationally, a concept is the set of all terms used in all languages to describe the same idea.

```
[Carthamus tinctorius*@en, safflower (plant)@en, alazor@es, carthame@fr, ...]
```

Sibling concept

Concepts that have the same parent concept are called sibling concepts.

```
[forest products*, ...]

[wood products*,...]

[non-wood products*,...]
```

In this example wood products and non-wood products are sibling concepts, i.e. they find themselves on the same level in the hierarchy and share the same parent concept forest products.

Hierarchical relations between concepts

Concepts are organized hierarchically by means of the relations *skos:broader (BT)* and its inverse *skos:narrower (NT)*.

```
[organisms*@en, organismos*@es, ...]
[animals*@en, animales*@es, ...]
[aquatic animals*@en, animales acuáticos*@es, ...]
```

Non-hierarchical relations between concepts.

To link related concepts in AGROVOC the general *skos:related* is used. In case the nature of their relatedness needs to be specified the <u>Agrontology</u> vocabulary is used.

```
[Carthamus tinctorius*, safflower (plant),...] agrontology: produces [safflower seed*, ...]
```

Non-preferred term

Every concept has one preferred term in every language. All the alternative terms to name a concept in any given language are called non-preferred terms.

```
[Vicia faba*, faba vulgaris,...]
```

In this example Vicia faba is the preferred term and faba vulgaris the non-preferred.

Parent concept

Concepts are organized hierarchically by means of the relations *skos:broader (BT)* and its inverse *skos:narrower (NT)*.

```
[animals*@en, animales*@es, ...]

[aquatic animals*@en, animales acuáticos*@es, ...]
```

Preferred term

For backward compatibility, for each concept in each language, one term is *preferred*. Preferred terms are traditionally used for library indexing, while in electronic environment they are used to "name" the concept when the space is limited and there is only room for one term. The decision which term should be preferred usually depends on its domain and its accepted conventions.

```
[Vicia faba*, faba vulgaris,...]
Vicia faba is the preferred term and faba vulgaris the non-preferred.
```

Relations between terms.

Terms naming the same concept may be related to one another by means of linguistic and terminological relations.

World Health Organization agrontology:hasAcronym WHO*

Term

A term is a word or phrase used to name a concept in any given language.

Carthamus tinctorius and safflower (plant) are the English terms to represent the concept [Carthamus tinctorius*@en, safflower (plant)@en, alazor@es, carthame@fr, ...]

URI - Uniform Resource Identifier

A URI is a string of characters used to identify a name or a resource on the Internet. The most common form of URI is the Web page address, which is a particular form or subset of URI called a Uniform Resource Locator (URL). In SKOS, concepts are formalized as skos:Concept and identified by dereferenceable URIs.

```
http://aims.fao.org/aos/agrovoc/c 12332 is the URI of the concept [maize*@en, corn (maize)@en, maïs*@fr, *@th, ...]
```

SKOS

Simple Knowledge Organization System (SKOS) is a W3C recommendation designed for representation of thesauri, classification schemes, taxonomies, subject-heading systems, or any other type of structured controlled vocabulary. SKOS is part of the Semantic Web family of standards built upon RDF and RDFS, and its main objective is to enable easy publication and use of such vocabularies as linked data.

SKOS-XL

SKOS-XL defines an extension for the Simple Knowledge Organization System, providing additional support for describing and linking lexical entities.

SKOS Concept scheme

A SKOS concept scheme can be viewed as an aggregation of one or more SKOS concepts. Semantic relationships (links) between those concepts may also be viewed as part of a concept scheme.

HOW TO ADD CONTENT TO AGROVOC - AN OVERVIEW

When you want to add content to AGROVOC, the first question that arises is: Should I add a concept or a term? The answer to this question mostly depends on whether the "concept" you want to add is already present in AGROVOC, maybe as a synonym, maybe in a different language. Down below you will find a decision-tree graph which is explained step by step in the sections down below.

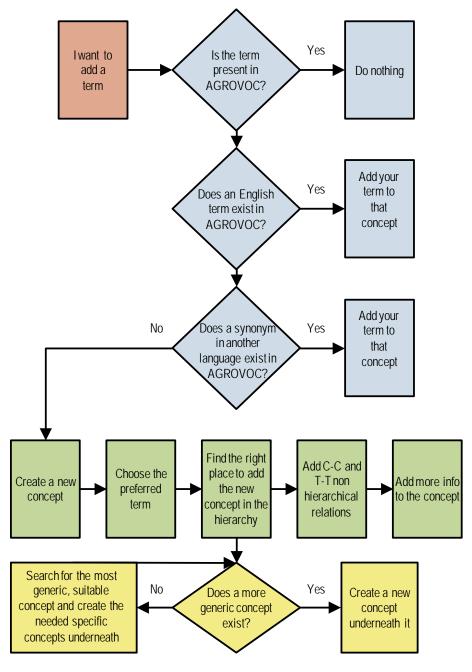


Figure 1. Decision tree for AGROVOC

1: IS THE TERM PRESENT IN AGROVOC?

Think of the word or phrase you want to add. Is it present in AGROVOC?

Four options are possible:

- The English term is already in AGROVOC.
 In this case you do not have to do anything.
- The English term you have in mind is not in AGROVOC, but a similar (a synonym) English term is.
 Simply add "your" term as an alternative label (non-preferred term) of the same concept.

For example:

You want to add climatic change.

You first check if this term already exists in AGROVOC. You find that it does not, but you find climate change, which is a preferred term (for c_1666). Then you add climatic change to that concept.



Figure 2. Add a non preferred term to an existing concept

- The English term is not there, but its equivalent in a different language is (rarely the case)
 In this case retrieve the concept and add the term as the preferred term in English for this concept (being the first English term to be added to the concept).
- 4. The concept is not in AGROVOC at all. In this case, you need to add a new concept to AGROVOC.

For example:

You want to add ancestral technology.

You check if this term is already present in AGROVOC literally. If it is not, you look for its translation in other languages, like prácticas ancestrales and its synonyms, like ancient technology and traditional technology.

You find the concept traditional technology already exists and consult a domain specialist - maybe yourself ③ - with the question: Is ancestral technology a synonym of traditional technology? You receive the following feedback: "Ancestral practices are the ones that were developed by the original indigenous population, and then were lost or modified with the arrival of Spanish/Portuguese/European farmers, who modified the original crops and agronomic practices. These practices are especially encountered in Latin America where an important indigenous component still prevails."

Therefore you decide ancestral technology is not the same as traditional technology and create the following new concept:[ancestral technology*, ...].

For instructions on how to create new terms and concepts in the VocBench, see the VocBench manual.

In Annex A, you will find some tips on how to search AGROVOC.

2: CREATE A NEW CONCEPT: CHOOSE THE PREFERRED TERM

Once you have decided that you need to create a new concept, the following questions will come up: 1. How to choose a preferred term for it? 2. Where should you place the new concept within the overall hierarchy of AGROVOC?

In this section, we provide some guidelines on how to choose a preferred term. In the next section we will talk about placing the concept within the overall hierarchy.

COMMON AND SCIENTIFIC NAMES OF ANIMALS AND PLANTS

Scientific and common names of animals and plants (and fungi, bacteria..) may both be preferred terms of a concept. The choice mostly depends on in which branch of the hierarchy they are placed, the common names or the scientific names branch. For more details, see the sub-section "Scientific taxonomies and common sense hierarchies" of the section "Create new concept: Where to add the concept in the hierarchy".

GEOGRAPHICAL NAMES

Countries

AGROVOC already contains all names of countries recognized by the UN. Sources consulted in general are: the <u>FAO Terminology portal</u>³ and <u>UNBIS</u>⁴ (United Nations Bibliographic Information System).

```
[Netherlands*, Holland, Kingdom of the Netherlands, ...]
```

Note that short names or abbreviations/acronyms are entered as non preferred terms.

```
[Slovak Republic*, Slovakia]
[European Union*, EU]
[Saint Lucia, St. Lucia]
```

Other geographical entities – sub- and super-nationals

Always check out relevant authoritative sources to choose the official name of a geographical entity.

```
[Burgundy*@en, Bourgogne*@fr,...]
[European Union*, EU, ...]
```

Entities of physical geography

Look in authoritative resources for the official form of names of mountains, rivers, lakes, valleys etc. The official form should be the preferred term, all other variants are considered non preferred terms.

Note that for disambiguation reasons the word "river" is attached to the names of rivers.

```
[rivers*,...]
[Rhine river*, ...]
[Zambezi river*,...]
```

ABBREVIATIONS

Preference for full form

The full form should be selected as preferred term when the abbreviated form is not widely used and generally understood.⁵

```
[System of Rice Intensification*, SIR, ...]
[Pale Soft Exudative Meat*, PSE meat, ...]
```

Preference for abbreviated form

The abbreviated form should be selected (as preferred term) when it has become so well established that the full form is rarely used, mostly the case for acronyms.⁶

³ http://www.fao.org/termportal/en/

⁴ http://lib-thesaurus.un.org/LIB/DHLUNBISThesaurus.nsf/\$\$searche?OpenForm

⁵ <u>Guidelines for the Construction, Format, and Management of Monolingual Controlled</u> Vocabularies (ANSI/NISO Z39.19-2005 (R2010) p, 31

FAO = preferred

Food and Agriculture Organization = non preferred

AGRIS = preferred

International Information System for the Agricultural Sciences and Technology = non-preferred

Chemical compounds and elements

For chemical compounds and elements the full form is always the preferred term and the symbol the non preferred.

```
trinitrotoluene=preferred
TNT = non preferred
oxygen=preferred
O=non preferred
```

3: CREATE A NEW CONCEPT: WHERE TO ADD THE CONCEPT IN THE HIERARCHY?

AGROVOC is organized in a hierarchy. In this section we provide you with an overview of its structure.

The "hierarchy" tab of the concept box in VocBench shows you a compact view of the hierarchy above and right below a concept. This is useful to quickly grasp long hierarchy lines or to inspect multiple hierarchical path leading to a concept.

HIERARCHY

Hierarchical relations between concepts

Concepts are organized hierarchically by means of the relations "broader" (*BT*) and its inverse "narrower" (*NT*). The following examples represent a fragment of a BT/NT hierarchy in respectively tree-like, standard thesaurus, SKOS format:

Note that concepts may have more than one parent. However, we do not encourage this practice.

```
[geographic regions*,...] [Amazonia*,...]
```

⁶ Idem

```
&
[South America*,...]
[Amazonia*,...]
```

TOP AND SUB CONCEPTS

AGROVOC has 25 top concepts. All other concepts, the sub-concepts, are placed underneath these concepts. We recommend that you spend some time browsing the hierarchy to make yourself familiar with it.

In the following of this section, we discuss some relevant fragments of the hierarchy, namely: agriculture, forestry and fisheries; scientific/commons names for plants/animals, fungi, bacteria & viruses; Diseases; Pests; Taxa; Geographic entities.

AGRICULTURE, FORESTRY AND FISHERIES

"agriculture" and "fisheries" are both seen as economic activities.

```
[activities*,...]

[economic activities*,...]

[agriculture*, ...]

[suburban agriculture*,...]

[urban agriculture*,...]

[fisheries*,...]

[acquaculture*,...]

[artisanal fisheries*,...]

[capture fisheries*,...]

[demersal fisheries*,...]
```

Forestry is placed under as well top concept "activities" as "subjects".

```
[subjects*,...]

[sciences*,...]

[activities*,...]

[forestry*,...]

[forestry operations*,...]

[cutting back*,...]

[forest products derivation*,...]

[silviculture*,...]

[intensive silviculture*,...]

[regeneration*,...]
```

SCIENTIFIC TAXONOMIES AND COMMONS SENSE HIERARCHIES

In most cases, AGROVOC distinguishes between scientific taxonomies (where all scientific names can be found) and common sense hierarchies where common names can be found. However, there are a few exceptions to this rule, i.e., cases where common names and scientific names are "mixed" and can be found together.

The figure below shows the branches existing in AGROVOC. The scientific names branches are colored green, the common names branches yellow.

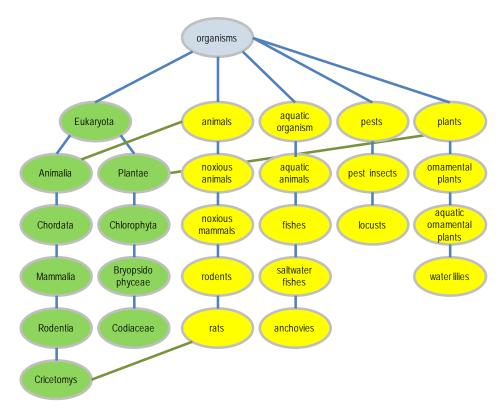


Figure 3. Scientific and common names branches

You may find instances of pests also in this branch. Types of pests on the other hand are placed in the common names branch directly under 'Organisms.'

Preferred term & skos:related

The general rule is that concepts in a scientific taxonomy get a scientific name as preferred, while concepts in a common sense hierarchy get a common name as preferred. The two concepts are then linked by means of a *skos: related* relation, see e.g. pelicans and Pelecaniformes. This practice is currently under examination in the context of the GACS project.

THE COMMON NAMES BRANCH FOR PLANTS AND ANIMALS

The common names branches focuses on animals and plants from an agricultural point of view, like usability, productivity⁷. You find these branches directly under top concept "organisms". In the picture below, and example, relative to plants:

⁷ AGROVOC is an agricultural rather than a zoological thesaurus.

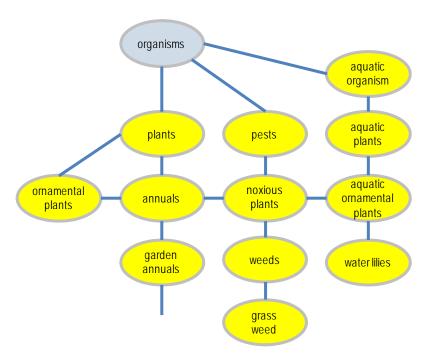


Figure 4. Common names branch for animals and plants

Preferred term & skos:relation

The common name is the preferred term, the scientific name may also be given, but it is preferable that you create another concept for the scientific name within the scientific names branch, relating the two concepts to each other by a *skos: related* relation.

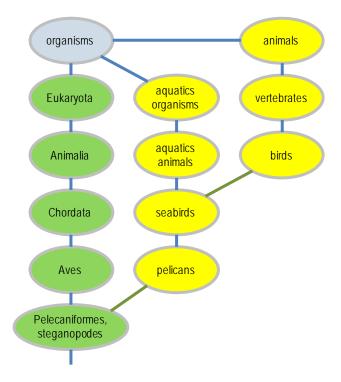


Figure 5. skos:relation

Note that often we only have the scientific or only the common name in AGROVOC. For example, we have the term Ursus maritimus*, but it's common name

"polar bear" is not present. Or the other way around, we have Coyote*, but we do not have its scientific name "Canis latrans".

DISEASES

Diseases are placed underneath top concept 'phenomena'

```
[phenomena*,...]

[biological phenomena*,...]

[diseases*,...]

[animal diseases*,...]

[bird diseased*,...]

[avian influenza*,...]
```

PESTS

You may find types of pests, like 'stem eating insects', 'noxious plants', in the common names branch, directly under 'Organisms'. Instances of pests are placed in the scientific names branch under 'Eukaryota'.

```
[Eukaryota*,...]

[Animalia*,...]

[Aschelminthes*,...]

[Nematoda*,...]

[Heteroderidae*,...]

[Heterodera*,...]

[Hetorodera glycines*,...]
```

TAXONOMIC RANKS

All taxonomic ranks are placed under the parent concept "taxa" and under the top concept "groups".

```
[groups*,...]

[taxa*,...]

[phylum*, division (taxa),...]
```

GEOGRAPHICAL ENTITIES

Most geographic entities are to be found under top concept "entities". The actual countries, continents and regions are mostly placed under its sub-concept "World".

```
[entities*,...]

[world *,...]

[Asia and the Pacific*,...]

[ Asia*,...]

[ Central Asia*,...]

[ Turkmenistan*,..]
```

Under sub-concept "Countries" you will find especially type of countries.

```
[entities*,...] [countries*,...]
```

```
[SADC countries*,...]
[agrarian countries*,...]
[Small Island Developing States*,...]
[developing countries*,...]
```

Other geographical entities, such as valleys, beaches, mountains etc. are listed under top concept "features".

```
[features*,...]

[physiographic features*,...]

[beaches*,...]

[highlands*,...]

[mountains*,...]
```

Rivers, lakes, gulfs etc. are to be found under top concept "resources" and then under two parents: "inland waters" and "surface waters.".

```
[resources*,...]

[natural resources*,...]

[nonrenewable resources*,...]

[inland waters*,...]

[surface waters*,...]

[rivers*,...]

[Cauca river*,...]

[Nile river*,...]
```

Note that geographic concepts, like valleys or islands have as subconcepts "types" of valleys and islands, not specific valleys and islands. An exception is rivers, under this parent concept you will find a long list of river names, please compare:

```
Examples
[rivers*,...]

[Rhine river*, ...]

[Zambezi river*,...]

[valleys*,...]

[gorges*,...]

[upland valleys*,...]
```

4. ADD NON HIERARCHICAL CONCEPT-CONCEPT RELATIONS

In AGROVOC you may use a number of relations — in VocBench called properties - to state that two concepts are *related* to one another. The most generic one is the relation *skos:related* which corresponds to the classical relation *related term* (RT), traditionally used in thesauri.

In the module "Properties" in VocBench all the C-C relations currently available for AGROVOC are listed.

Here below you will find a list of the C-C relations in use by AGROVOC, accompanied by some guidelines on their use and examples.

+ skos:related

agrontology:taxonomicRelationship (18)

hasTaxonomicLevel

Used to specify the taxonomic category of the scientific name of a plant or animal.

[Araucaria araucana] has taxonomic level [species]

It is highly recommended to create this relationship for each scientific name of a plant, animal, fungo, bacteria or virus that is added to Agrovoc.

agrontology:causativeRelationship (31)

Produces (inverted **Causes**)

Used to lay a relationship between the scientific name of a plant and its common name as a product.

[Vicia faba*,...] produces [faba beans*, broad beans, tick beans,...]

5. ADD OTHER DESCRIPTIVE INFORMATION

AGROVOC may be enriched in the Vocbench with various pieces of information, such as definitions, notes, attributes etc. In the following of this section we will first discuss information relative to concepts, then information relative to terms.

CONCEPTS

DEFINITIONS

Definitions are narrative explanations of the meaning of a concept. Definitions also help AGROVOC users to understand the concept and decide on its use.

Concepts may have one or more definitions and each definition may be expressed in one or more languages. Definitions consist of a narrative (the actual definition) and its source. You are strongly encouraged to add a source, indicated by means of an URL, for each definition you provide, but this is not strictly compulsory.

Workflow in Vocbench (cf. VocBench User Manual, 9.1.4 Edit the information attached to a concept):

- 1. Click on the "Definitions tab" of the concept box.
- 2. Add the text in the Definition field.
- 3. Select the language.
- 4. Select the type of source, selecting one of the following:
 - o "WIKIPEDIA"
 - "Book" (in case the digital version is available, add its URL in the next "URL" field, otherwise leave it empty).
 - "Journal article" (in case the digital version is available, add its URL in the next "URL" field, otherwise leave it empty).
 - o "Other", if the source is a website. Add its URL in the "URL" field
 - 5. Add the URL, if available.



Figure 6. Add a definition to a concept in VocBench

For example

[sacred woods*,...]

Definition: A sacred wood is a wood which has a spiritual significance where the land is held by the local spirits and its spiritual character is venerated.

Language: English Source: Other

URL: http://www.opbf.org/open-plant-breeding/glossary/

Editors are encouraged to provide a definition in English any time they add a new concept to AGROVOC, independently of their preferred language. This practice is meant to allow future expansion of AGROVOC, i.e. translation in other languages.

NOTES

Three types of notes are currently in use:

EDITORIAL NOTE

The note *skos: EditorialNote* is used for editorial comments, like reasons for changing a concept.

This type of note is also used for adding the Author of a species, see Annex B.

Term: Caudiverbera caudiverbera

skos: editorialNote: Author: (Linnaeus 1758)

SCOPE NOTE

The note skos:scopeNote is used:

• To explain the meaning and application of a term.

[equipment*,...]

Scope note: Use only when a more specific term is not available.

[application rates*,...]

Scope note: Of drugs, fertilizers, pesticides or other agricultural

chemicals

 To create cross-references to terms representing other concepts than that chosen for the term under consideration

[dehydration*,...]

Scope note: Excessive loss of water due to physiological phenomena; for the process of removing water from materials or products use <2402>.

To indicate limitations or extensions of the meaning of the term:

[Consistency*,...]

Scope note: Restricted to the physical property

[Agricultural sector *,...]

Scope note: Includes fishery and forestry sectors

[Growth rate*,...]

Scope note: Restricted to the biological phenomenon; in economics

use "Economic growth rate"

• To state in which country that common name of animal or plant is used.

HISTORY NOTE

VocBench shows a tab "History", which contains the editorial history of a concept and cannot be edited manually. The note *skos:historyNote* can be used to provide more details for the editorial history.

[Monera*,...]

HistoryNote: Until June 2014 Monera was related to Prokaryotae through TaxonomicRelationship, since both concepts are referring to the same group of organisms, unicellular organisms, and both are taxa of outdated classification systems. The relation was deleted, because only used in this case.

ATTRIBUTES

Concepts may be further specified by means of attributes. Currently the following attributes are available:

agrontology:isSpatiallyIncludedInState agrontology:isSpatiallyIncludedInCity agrontology:isPartOfSubvocabulary

You may assign a concept to a subvocabulary, a thematic list of concepts, selecting the attribute *isPartofSubvocabulary*. Currently, the following subvocabularies are available:

Chemicals

Assign this attribute to chemical elements or names of chemical compounds.

[Hydrogen cyanamide*,...] isPartOfSubvocabulary: Chemicals

Geographical country level

Use this for countries.

[Portugal*,...] isPartOfSubvocabulary: Geographical country level

Geographical above country level

The content of this subvocabulary is under revision. Do not use until explicitly stated.

Geographical below country level.

The content of this subvocabulary is under revision. Do not use until explicitly stated.

Fishery related term

The content of this subvocabulary is under revision. Do not use until explicitly stated.

Only Publishers and Administrators may add new subvocabularies. For suggestions for new subvocabularies please contact the AGROVOC team.

IMAGES

For concrete objects it is possible and actually encouraged to include images of the concept.

TERMS

ATTRIBUTES

Currently, in AGROVOC it is possible to keep track of the following attributes:

- singular
- plural
- hasTermType

With attribute *HasTermType*, you may assign a subvocabulary to a term.

SUBVOCABULARIES OF TERMS

It is possible to define thematic lists of terms, called subvocabularies. Subvocabularies of terms currently available are:

Acronym Common name for animals Common name for Bacteria Common name for Fungi Common name for Plants Common name for viruses Taxonomic terms for Animals Taxonomic terms for Bacteria Taxonomic terms for Fungi Taxonomic terms for Plants Taxonomic terms for viruses

New subvocabularies may only be created by Publishers and Administrators, so the creation of new vocabularies falls outside the scope of this document. In case you think extra ones should be added, please write us at agrovoc@fao.org.

ANNEX A: TIPS ON HOW TO SEARCH AGROVOC

AGROVOC can be searched through the <u>search & browse</u> interface on the AIMS website⁸ or through VocBench⁹. If you prefer like to use the VocBench, we recommend that you use the <u>sandbox</u> version¹⁰ as much as possible, but only the production version contains all latest edits.

When checking if a concept already exists in AGROVOC, try to consider the following:

 Search for Synonyms, or alternative ways to write it, such as spelling variants or transliterations

Examples

Synonyms: wet season – rainy season – humid season

Homographs: rice (seed) - rice (plant) Spelling variants: labour – labor

- Use the functionality of "auto-suggestion" available both in the Search&Browse tool, and in VocBench
 - This is useful for example in case of multiword terms.

For example

You look for "agricultural and rural development" and cannot find it. But both "agricultural development" and "rural development" are there.

Names of animals and plants

For names of animals and plants, look for both their scientific/taxonomic names as common/local names.

For example

Look as well for honey bees as Apis mellifera.

Note that while most terms only appear in one branch of the hierarchy, animals and plants might be present in two branches of the hierarchy.

Most used form in other resources

Check in dictionaries, glossaries and other agricultural thesauri, such as the CAB thesaurus¹¹ and the National Agricultural Library (NAL) of the USA¹², to get an idea of the names they use to represent the concept you are proposing.

⁸ http://aims.fao.org/standards/agrovoc/functionalities/search

⁹ http://aims.fao.org/tools/vocbench-2

¹⁰ http://202.73.13.50:55481/vocbench/

¹¹ http://www.cabi.org/cabthesaurus/

¹² http://www.nal.usda.gov/

ANNEX B: EDITORIAL NORMS

LOWER CASE

COMMON NOUNS AND NOUN PHRASES

Common nouns and noun phrases are written in lower case.

rice
entomology
pests
animal developmental stages
genetically modified organisms

Note that this rule also applies to common names for plants, animals, fungi, bacteria & viruses and names of chemical compounds and elements written out.

It does not apply to proper names, acronyms, geographic names and scientific names for plant, animals, fungi, bacteria and viruses.

COMMON NAMES FOR PLANTS, ANIMALS, FUNGI, BACTERIA & VIRUSES

Common names for plants, animals, fungi, bacteria and viruses are written in lower case.

dogs sunflowers mushrooms

Scientific names of organisms are often "anglicized" by changing their endings to English format. Anglicized names are treated as common names and should not be capitalized.

Scientific name: Chordata Common name: chordates

CHEMICAL COMPOUNDS AND ELEMENTS WRITTEN OUT

The full form (written out) of chemical compounds and elements are written in lower case.

oxygen methyl methanesulphonate

TAXONOMIC RANKS

All names of taxonomic ranks start with a small letter.

genus phylum family (taxa)

UPPER CASE

PROPER NAMES

Follow the official spelling of the organization/association. In general the first letter of each word of a proper name is capitalized.¹³

Food and Agriculture Organization of the United Nations World Bank Competitive African Cotton Initiative

In case an organization capitalizes its names differently, use this spelling.

Proper names also occur within longer terms, for example in combination with "method", "theory", "disease".

```
[Monte Carlo method*,...]
[Kjeldahl method*,...]
[Bayesian theory*,...]
[Marek's disease virus*,...]
```

ABBREVIATIONS

Abbreviations include acronyms, initialisms, contractions and chemical compounds & elements.

Acronyms

Definition: An abbreviation formed from the initial letters of other words and pronounced as a word.

Follow the official spelling of the organization/association, see also Proper names. In general, though the first letter of each word of an acronym is capitalized.

FAO for Food and Agriculture Organization

Initialisms

Definition: An abbreviation consisting of initial letters pronounced separately. The first letter of each word of the full form of the initialism should be capitalized.

SRI for System of Rice Intensification

Guidelines for the Construction, Format, and Management of Monolingual Controlled Vocabularies (ANSI/NISO Z39.19-2005 (R2010) p, 34

Combination

When a term consists of a word and an abbreviation, each part follows the capitalization rule of the group it belongs to.

```
PSE meat
PSE is an initialism for "Pale Soft Exudative" and "meat" is a common noun.

[X rays*, ...]
[chloroplast DNA*,...]
```

Chemical symbols

The chemical symbol is always capitalized 14.

```
O (symbol) atmospheric CO2
```

GEOGRAPHIC NAMES

Geographic names always begin with a capital letter. In case of names consisting of several words, all of them are capitalized. Look in authorized resources for the official form.

```
[Asia*,...]
[Italy*, Italian Republic,...]
```

Generally all countries recognized by the UN are already in AGROVOC

In case of names of entities from physical geography, such as names of mountains, rivers and lakes, also the word "mountain", "river", and "lake" is usually capitalized.

```
[Lake Albert*,...]
[Amazon River*,...]
```

Geographic adjectives or nouns used in a name also start with a capital letter.

```
[bison*, American buffaloes, ...]
[Atlantic salmon*, ...]
[Greenland halibut*, blue halibut, mock halibut, ...]
[Gulf of Alaska*,...]
```

SCIENTIFIC SPECIES NAMES FOR PLANTS, ANIMALS, FUNGI, BACTERIA & VIRUSES

A species name is always binomial consisting of a genus name and a specific name. The genus name comes first and starts with a capital, the specific name comes second and starts with a lower-case letter.¹⁵

Apis mellifera Homo sapiens

 $^{^{14}} http://en.wikipedia.org/wiki/Wikipedia:Naming_conventions_\%28 chemistry\%29 \# Capitalization_of_elements_and_compounds$

¹⁵ http://www.tdwg.org/standards/113/download/113-528-1-RV.pdf, p 14

Clostridium botulinum Dictyostelium discoideum

SCIENTIFIC NAMES FOR PLANTS, ANIMALS, FUNGI, BACTERIA & VIRUSES ABOVE SPECIES

The names of the ranks above species, e.g. the instances of families, orders etc, start with a capital.

Animalia Chordata Pisces

Scientific names are often "anglicized" by changing their endings to English format. Anglicized names are treated as Common names for plants and animals and should not be capitalized.

Scientific name: Chordata Common name: chordates Scientific: Eukaryota

Common name: eukaryotes

SINGULAR OR PLURAL

COMMON NOUNS

All countable nouns should be plural, non-countable nouns should be singular.

<u>Countable nouns</u> are names of objects or concepts that are subject to the question "How many?" but not "How much?". These should normally be expressed as plurals.

pests chemical reactions vertebrates insects economic activities

Note that names of parts of the body should be expressed as plurals when more than one occurs in a fully formed organism, but in the singular if only one is present.

ears hands lungs head nose

Non-countable nouns of materials or substances that are subject to the question "How much?" but not "How many?" should be expressed in the singular.

oxygen gold rice steam If the community of users regards a given substance or material as a class with more than one member, the class should be expressed in the plural.

plastics poisons

The names of abstract concepts, e.g. systems of belief, activities, emotions, properties and disciplines, should be expressed in the singular.

Abstract entities and phenomena: winter

Properties: opacity; solubility

Beliefs: catholicism

Activities: cutting; immigration; respiration

Processes: migration; ploughing Emotions: anger; envy; love; pitty Disciplines: physics; sociology

MULTIWORD TERMS

All multiword names composed of nouns and non-function words (i.e. verbs, adjectives), the same editorial rules as for Common nouns apply.

animal developmental stages genetically modified organisms life cycle

COMMON NAMES FOR PLANTS, ANIMALS, FUNGI, BACTERIA & VIRUSES

Common names for plants and animals

Species

Common species names for plants, animals should be plural.

sheep dogs

Genus

Common genus names for plants, animals should be singular or plural if referring to all species with that genus

acacia or acacias thorntree or thorntrees

Family

Common family names for plants and animals should be either singular or plural

legume family or legumes

Note that anglicized names of scientific names are considered common names.

Common names for fungi, bacteria and viruses

Common names for fungi, bacteria and viruses should be singular.

oyster mushroom

Note that common names for fungi at genus and family level are uncommon.

SCIENTIFIC NAMES FOR PLANTS, ANIMALS, FUNGI, BACTERIA & VIRUSES

Scientific names for plants, animals and fungi

Species names

Scientific species names for plants, animals and fungi (genus name + epithet) should be singular.

Acacia saligna
Pleurotus ostreatus

Genus names

Scientific genus names for plants, animals and fungi could be either singular or plural (if referring to all species within that genus)

Pleurotus Acacia

Family, subfamily (and upper taxonomic levels)

Scientific family, subfamily (and upper taxonomic levels) names for plants, animals and fungi should be plural.

Pleurotaceae Fabaceae

Scientific names for bacteria and viruses

Species names

Scientific species names for bacteria and viruses should be singular.

Genus names

Scientific genus names is usually used in the singular, but it may be used in the plural if it refers to all species within that genus.

CHEMICAL COMPOUNDS OR CHEMICAL ELEMENTS WRITTEN OUT

Chemical compounds and chemical elements written out are non-countable nouns and should be expressed in the singular.

carbon dioxide magnesium chloride

GEOGRAPHIC NAMES

Use the official names as defined in <u>FAO Terminology</u> and/or in the <u>UNBIS</u> (United Nations Bibliographic Information System) thesaurus.

Generally all countries recognized by the UN are already in AGROVOC

OTHER EDITORIAL NORMS

CHEMICAL SYMBOLS

A chemical symbol is followed by the specification "symbol" between round brackets.

O (symbol)

P (symbol)

C (symbol)

HOMOGRAPHS

A homograph is a term that has the same spelling as the term you propose, but represents another concept. Therefore we recommend to add a qualifier between round brackets to a homograph to clarify its meaning.

rice (seed)
rice (plant)
kingdom (taxa)

NAMES OF ENTITIES OF PHYSICAL GEOGRAPHY

In the case of names of entities from physical geography, such as names of mountains, rivers and lakes, consider adding the word "mountain", "river", "lake" etc. directly to the term (without parenthesis) to disambiguate it from regions, cities etc. with the same name.

[Rhone River*, ...] {Rhone Alpes*, ..]

SCIENTIFIC NAMES FOR ANIMALS, PLANTS, FUNGHI, BACTERIA & VIRUSES

DESCRIBING AUTHOR OF SPECIES

The species binomial may include the last name(s) of the describing author(s). In AGROVOC though the describing author is not part of the term's name, but may be mentioned in an editorial note.

Term: Caudiverbera caudiverbera

skos: editorialNote: Author: (Linnaeus 1758) (en)

ITALICS

The genus and specific name are conventionally written in *italics* to distinguish the name from surrounding text. Since AGROVOC is a thesaurus, there is no surrounding text and therefore this norm is not applied.

ABBREVIATION OF THE GENUS NAME

In some cases the genus name is abbreviated e.g. "H. sapiens" instead of "Homo sapiens". In AGROVOC we always use the full form.

COLENITIES NAME CANAL IN ALL LANGUAGES

SCIENTIFIC NAME SAME IN ALL LANGUAGES

The scientific name for a plant, animal, fungi, bacteria or virus is the same in all languages.

Apis mellifera@en Apis mellifera@fr Apis mellifera@zh Apis mellifera@ar

TRANSLITERATION OF SCIENTIFIC NAMES

Scientific names are usually written in the Latin alphabet (scientific names are Latinate words, meaning it is not a Latin word, but is derived from Latin). It may be transliterated in different alphabets.

VERBS AND ADJECTIVES

Terms should be single-word nouns or noun phrases. If not otherwise possible multiword names containing verbs and adjectives are allowed.

beneficial organisms genetically modified organisms