

## Appendix B: Subject Taxonomy

Standardized Taxonomy Usage Recommendations .....	1
Mixed Breeds.....	2
Information Unknown or Not Available.....	3
Subject Groups .....	3
Subject Linnaean Taxonomy.....	3
Subject Breeds.....	3
Cattle breed subset.....	3
Goat breed subset.....	13
Sheep breed subset.....	14

### Standardized Taxonomy Usage Recommendations

This appendix provides value sets and guidelines for standardizing subject taxonomy concepts as Linnaean categories, and animal groups, breeds and strains. Linnaean taxonomy (e.g. genus, species, etc.) serves as a strong framework to link the various levels of animal groups, breeds and strains within a parent-child hierarchy. Animal groups represent commonly recognized collections (e.g. cattle, goats) that may include more than one species. Animal breeds that are officially recognized and known to produce offspring of the same breed are standardized. Animal strains have been genetically engineered such that they can be determined to represent a recognizable, consistent genetic type.

The subject taxonomy standardization value sets utilize a subset of the Veterinary Adaptation of the Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT®). The SNOMED CT® Veterinary Adaptation includes synonyms and parent-child relationships between concepts. This utilization of the SNOMED CT® Veterinary Adaptation enhances the use of the taxonomy value set by allowing the use of parent-child relationships between kingdom, phylum, class, order, family, genus, species, sub-Linnaean categories (e.g. subspecies), groupings, breeds and strains. Online access is available for browsing the taxonomy values set relationships and attributes (e.g. hierarchy, synonyms) as maintained in the Veterinary Adaptation to SNOMED CT®. This provides the ability to browse online and download content. Access is available via the URL: <http://snomed.vetmed.vt.edu/nahln/main.htm>

#### Browse

Hit the Search button: 

Select Taxonomy [PID.35] from the Domain list and hit the GO button: 

#### Download

Hit the Download button: 

Select the Taxonomy [PID.35] hyperlink to download a comma separated values file

Subject taxonomy concepts represented by Linnaean classification, groups, breeds, and strains are organized within the SNOMED CT® Veterinary Adaptation hierarchy. This hierarchy can be used to navigate from a high granularity (e.g. Bovine) to a lower granularity (e.g. Black Angus) for promoting data entry efficiency. This is supported by pull-down, data entry selection lists specialized for the type of subject observed. The hierarchy can also be used to group lower granularity animals (e.g. Cattle & Bison) into higher granularity groups (e.g. Bovine) supporting automated hierarchical inferencing activities (e.g. Retrieve all cattle subjects (regardless of whether they are represented by breed or species)). Full utilization of this hierarchy is maximized if the information model used to store this data represents the generic concept “taxonomy”, and this data element is able to store either the Linnaean classification, group,

## Appendix B: Subject Taxonomy

breed, or strain. Rather than model and store each of the above data elements separately (e.g. breeds are stored separately from species) and requiring all or a subset for each animal recorded in the database (e.g. “Bovine” group, “Bos Taurus” species, and “Black Angus” breed are all stored), only a single taxonomy data element will be required (e.g. “Bos Taurus” breed). This single data element will capture the animal taxonomy classification specified to a reasonable level of confidence. For example, if an individual that observes a sheep is not confident that they know the breed, but are confident that the animal is a domestic sheep, the subject species “Ovis aries” will be stored. Information systems that are able to model and process this taxonomy information using the SNOMED CT® hierarchy will be able to accurately group or aggregate this animal as part of the “Sheep” animal group. Data entry personnel can be provided guidance to select the breed (or Linnaean taxonomy) level of detail appropriate to their level of confidence. Data retrieval personnel may be provided a system that supports navigation through the various levels of hierarchy in order to identify the level of detail useful for performing accurate aggregation of comparable animals based on species, animal group or breed.

The value sets provided below are presented as subset lists meant to aid visual inspection. These tables are derived from an overall value set named “SubjectTaxonomy”. This value set is organized within a hierarchy and provided attributes such as synonyms within the SNOMED CT® Veterinary Adaptation. The value subset listed below provide some taxonomy definitions, recommended alternative means to standardize and a limited set of commonly used synonyms within Veterinary Services. The full set of synonyms can be utilized for retrieving taxonomic concepts with common names within the application provided for browsing terminology online and downloading content. Access is available via the URL: <http://snomed.vetmed.vt.edu/nahln/main.htm>

**Value Set Name:** SubjectTaxonomy

**Value Set version:** 20081215

**Coding System:** SNOMED CT® Veterinary Adaptation unless otherwise specified (e.g. HL7, Local)

The concepts listed in the tables below are associated with a status [Active, Retired]. A retired concept was previously used, but is no longer included in the standardized SubjectTaxonomy value set.

### ***Mixed Breeds***

Only the generic concept used to specify that a subject appears to be a descendent of animals of dissimilar breeds (i.e. mixed breed) will be included in the standardized subset lists (e.g. sheep breeds). The ability to specify the breeds of the parents will not be supported. It is recommended that commonly encountered mixed breeds be supported by either narrative supplemental descriptors or local standards. In either of these cases the subject will be noted to be of ‘Mixed Breed’ with the appropriate SNOMED CT® breed concept. This information can be supplemented with additional narrative text, locally standardized animal breeds, or standardized subject descriptors.

## Appendix B: Subject Taxonomy

### **Information Unknown or Not Available**

Coding System: HL7 NullFlavor [2.16.840.1.113883.5.1008]\*

Value Set Name: NullFlavor

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
AskedButUnknown	HL7*	2.16.840.1.11388 3.1.11.10614	Active	Description: Information was sought but not found (e.g., owner was asked but didn't know); Synonym = "Not Specified"
NoInformation	HL7	2.16.840.1.11388 3.1.11.10610	Active	No information whatsoever can be inferred from this exceptional value. This is the most general exceptional value. It is also the default exceptional value.
Other	HL7	2.16.840.1.11388 3.1.11.10616	Active	Description: The actual value is not an element in the value domain of a variable. (e.g., concept not provided by required code system).
Unknown	HL7	2.16.840.1.11388 3.1.11.10612	Active	Description: A proper value is applicable, but not known.

### **Subject Groups**

Subject group subsets (e.g. Bovine) will be provided in the future

### **Subject Linnaean Taxonomy**

Subject Linnaean taxonomy classifiers (e.g. genus, species) will be provided in the future

### **Subject Breeds**

Avian, Equine, & Pig breeds will be provided in the future

#### **Cattle breed subset**

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Aberdeen Angus	SNOMED	84923006	Active	Synonym "Angus"
Abondance	SNOMED	133551002	Active	
Africander	SNOMED	131426006	Active	
Albères	SNOMED	131555000	Active	This is a semi-feral breed found in the Albères Mountains and eastern Pyrenees of France and Spain. It is black, blond or brown in coloration and the breed is rare. <a href="http://www.ansi.okstate.edu/breeds/cattle/alberes/index.htm">http://www.ansi.okstate.edu/breeds/cattle/alberes/index.htm</a>
Alentejana	SNOMED	131556004	Active	
Allmogekor	SNOMED	51901000009101	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/allmogekor/index.htm">http://www.ansi.okstate.edu/breeds/cattle/allmogekor/index.htm</a>
American bison X cattle breed	SNOMED	133703008	Active	Synonym "American Breed"

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
American Bucking Bull			Retired	Recommended: SubjectTaxonomy "Mixed breed cattle" (409906003) in addition to SubjectUse/Function "Competition " (CP)
American White Park	SNOMED	131557008	Active	
Amerifax	SNOMED	131558003	Active	
Amrit Mahal zebu	SNOMED	133594007	Active	
Anatolian Black	SNOMED	131559006	Active	
Andalusian Black	SNOMED	131560001	Active	
Andalusian Blond	SNOMED	133291003	Active	
Andalusian Gray	SNOMED	131561002	Active	
Angeln	SNOMED	131562009	Active	
Ankina	SNOMED	131443009	Active	
Ankole	SNOMED	131427002	Active	Ankole cattle are referenced on the Oklahoma State animal breed web site as one of the founders of the Ankole-Watusi breed in the US. This breed is potentially found in zoos and animal parks preserving the species, and are still prominent in parts of Africa.
Ankole-Watusi	SNOMED	131428007	Active	Ankole Watusi is the American version of Watusi cattle. They are of American origin, not African as is the case for Watusi cattle.
Argentine Criollo	SNOMED	51911000009104	Active	The Argentine Criollo is one of the Criollo type cattle found in the Americas and include the Texas Longhorn among others. <a href="http://www.cglrc.cgiar.org/ilri/beef/Argentine_Criollo.htm">http://www.cglrc.cgiar.org/ilri/beef/Argentine_Criollo.htm</a>
Asturian Mountain	SNOMED	131563004	Active	
Aubrac cattle breed	SNOMED	131565006	Active	
Aulie-Ata	SNOMED	131566007	Active	
Australian Braford X zebu	SNOMED	133704002	Active	
Australian Friesian Sahiwal X zebu	SNOMED	133715007	Active	
Australian Lowline	SNOMED	131567003	Active	Synonym "Lowline"
Australian Milking Zebu X zebu	SNOMED	133748007	Active	
Ayrshire	SNOMED	8989009	Active	
Bachaur	SNOMED	133595008	Active	
Baladicattle	SNOMED	131429004	Active	Synonym "Baladi"
Baltana Romaneasca	SNOMED	51921000009107	Active	<a href="http://www.bloobook.net/index/mammaia.php?lg=eo">http://www.bloobook.net/index/mammaia.php?lg=eo</a>
Barka zebu	SNOMED	133596009	Active	
Barzona	SNOMED	131568008	Active	
Bazadais	SNOMED	131569000	Active	
Bearnais	SNOMED	133312008	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Beef Breed			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Meat Breed" (1030)
Beef friesland	SNOMED	7861000009107	Active	
Beef shorthorn	SNOMED	133313003	Active	
Beefmaker	SNOMED	131570004	Active	
Beefmaster	SNOMED	16042001	Active	
Belarus Red	SNOMED	131571000	Active	
Belgian Blue	SNOMED	131572007	Active	
Belgian Red	SNOMED	131573002	Active	
Belgian Red Pied	SNOMED	133318007	Active	
Belgian White and Red	SNOMED	133319004	Active	
Belmont Adaptaur	SNOMED	131574008	Active	
Belmont Red	SNOMED	131430009	Active	
Belted Galloway	SNOMED	13544004	Active	
Bengali	SNOMED	133597000	Active	
Berrendas	SNOMED	131575009	Active	
Bhagnari	SNOMED	133598005	Active	
Bison bison			Retired	Recommended: Use the species concept "Bison bison" (424878006)
Black			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Black" (1011)
Black Angus	SNOMED	409905004	Active	
Black and White			Retired	
Black Baldy			Retired	Recommended: SubjectTaxonomy "Mixed breed cattle" (409906003) in addition to SubjectDescriptor "Black baldy " (1006)
Black Welsh	SNOMED	28744004	Active	Synonym "Welsh Black"
Black White Face			Retired	Recommended: SubjectTaxonomy "Mixed breed cattle" (409906003) in addition to SubjectDescriptor "Black white face " (1021)
Blacksided Trondheim and Norland	SNOMED	131576005	Active	
Blanco Orejinegro	SNOMED	131577001	Active	
Blonde d'Aquitaine	SNOMED	62153005	Active	
Bonsmara	SNOMED	131431008	Active	
Boran	SNOMED	133599002	Active	
Bordelais	SNOMED	51941000009103	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Bos grunniens			Retired	Recommended: Use the species concept "Bos grunniens" (53919002)
Bos taurus X Bison bison hybrid	SNOMED	425181009	Active	Synonym "Beefalo"
Bos taurus indicus			Retired	Recommended: Use the subspecies concept "Bos taurus indicus" (125091004)
Braford X zebu	SNOMED	133716008	Active	
Brahma	SNOMED	30384003	Active	Synonym "Brahman"
Brahmanstein	SNOMED	51971000009106	Active	<a href="http://imsonline.tamu.edu/Courses/Samples/102AppliedSciandTech/AppliedSciTechDocs/8393_ST.pdf">http://imsonline.tamu.edu/Courses/Samples/102AppliedSciandTech/AppliedSciTechDocs/8393_ST.pdf</a>
Brahmousin X zebu	SNOMED	133717004	Active	Synonym "Brahmousin"
Bralers X zebu	SNOMED	133767006	Active	Synonym "Braler"
Brangus	SNOMED	28336001	Active	
Braunvieh	SNOMED	131578006	Active	
Brindle			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Brindle" (1024)
British White	SNOMED	131579003	Active	
Brockle Face			Retired	Recommended: SubjectTaxonomy "Mixed breed cattle" (409906003) in addition to the appropriate SubjectDescriptor "Black brockle face" (1022) or "Red brockle face" (1026)
Brown Swiss	SNOMED	44230005	Active	
Brown Welsh	SNOMED	944009	Active	
Bubalus bubalus			Retired	Recommended: Use the species concept "Bubalus bubalus" (28692007)
Buelingo	SNOMED	7891000009104	Active	
Busa	SNOMED	133577005	Active	
Cachena	SNOMED	131580000	Active	
Canadian	SNOMED	21921002	Active	Synonym "Canadian Lineback"
Canadian	SNOMED	21921002	Active	
Canary Island	SNOMED	131581001	Active	
Canchim X zebu	SNOMED	133718009	Active	
Carinthian Blond	SNOMED	131582008	Active	
Cattalo	SNOMED	69510003	Active	
Caucasian	SNOMED	131583003	Active	
Channi	SNOMED	133600004	Active	
Char-Swiss			Retired	Recommended: SubjectTaxonomy "Mixed breed cattle" (409906003) in addition to a free-text descriptor <a href="http://jds.fass.org/cgi/reprint/66/6/1409.pdf">http://jds.fass.org/cgi/reprint/66/6/1409.pdf</a>

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Charbray X zebu	SNOMED	133719001	Active	
Charford X zebu	SNOMED	133797003	Active	
Charolais	SNOMED	131584009	Active	
Chiangus	SNOMED	133578000	Active	
Chianina	SNOMED	35229007	Active	
Chiford	SNOMED	133355007	Active	
Chimaine	SNOMED	133356008	Active	
Chinampo	SNOMED	133357004	Active	
Chinese Black-and-white	SNOMED	131585005	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/chineseblackandwhite/index.htm">http://www.ansi.okstate.edu/breeds/cattle/chineseblackandwhite/index.htm</a>
Cholistani	SNOMED	133601000	Active	
Corriente	SNOMED	131586006	Active	
Costeño con Cuernos	SNOMED	131587002	Active	
Criollo	SNOMED	83996001	Active	
Crossbred Beef			Retired	Recommended: Use as a synonym to "Mixed breed cattle" (409906003) in addition to using the SubjectDescriptor "Meat Breed" (1030)
Crossbred Twinner			Retired	Recommended: Use as a synonym to "Mixed breed cattle" (409906003) in addition to a free-text descriptor
Cumberland	SNOMED	133568003	Active	Similar to the Whitebred Shorthorn cattle breed (133568003) <a href="http://www.whitebredshorthorn.com/breed/history.html">http://www.whitebredshorthorn.com/breed/history.html</a>
Dairy Breed			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Dairy Breed" (1031)
Dairy Synthetic	SNOMED	133371007	Active	
Dajal	SNOMED	133602007	Active	
Damascus	SNOMED	131588007	Active	
Damietta	SNOMED	131432001	Active	
Dangi	SNOMED	133603002	Active	
Danish Black and White	SNOMED	52221000009109	Active	<a href="http://neurocad.lva.lt/Breeds/DanishBreeds.htm">http://neurocad.lva.lt/Breeds/DanishBreeds.htm</a>
Danish Jersey	SNOMED	133580006	Active	
Danish Red	SNOMED	131589004	Active	
Danish Red Pied	SNOMED	133372000	Active	Synonym "Danish Red & White"
Deoni	SNOMED	133604008	Active	
Devon	SNOMED	131590008	Active	
Dexter	SNOMED	53031002	Active	
Dhanni	SNOMED	133605009	Active	
Dølafe	SNOMED	131591007	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/dolafe/index.htm">http://www.ansi.okstate.edu/breeds/cattle/dolafe/index.htm</a>
Droughtmaster X zebu	SNOMED	133720007	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Dutch Belted	SNOMED	131592000	Active	
Dutch Friesian	SNOMED	131593005	Active	
East Anatolian Red	SNOMED	133378001	Active	
Enderby Island	SNOMED	133581005	Active	
English Longhorn	SNOMED	131594004	Active	
English Longhorn	SNOMED	131594004	Active	
Eringer	SNOMED	52231000009106	Active	<a href="http://www.viehexport.ch/eng/cattle4.php">http://www.viehexport.ch/eng/cattle4.php</a>
Estonian Red	SNOMED	131595003	Active	
Evolène	SNOMED	131596002	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/evolene/index.htm">http://www.ansi.okstate.edu/breeds/cattle/evolene/index.htm</a>
Fighting Bull	SNOMED	131597006	Active	
Finnish Ayrshire	SNOMED	133384003	Active	Synonym "Finnish"
Fjall	SNOMED	131598001	Active	
Gayal	SNOMED	133702003	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/dulong/index.htm">Synonym "Dulong"</a> <a href="http://www.ansi.okstate.edu/breeds/cattle/dulong/index.htm">http://www.ansi.okstate.edu/breeds/cattle/dulong/index.htm</a>
German Fleck-Vieh	SNOMED	67448000	Active	
Flemish	SNOMED	133385002	Active	Synonyms "Flamande" and "Rouge Flamand"
Florida Cracker	SNOMED	131599009	Active	Synonym "Pineywoods"
Fribourg	SNOMED	52241000009100	Active	<a href="http://www.swissinfo.ch/eng/front.html?siteSect=109&amp;ty=st&amp;sid=9318795&amp;front=br">http://www.swissinfo.ch/eng/front.html?siteSect=109&amp;ty=st&amp;sid=9318795&amp;front=br</a>
Galician Blond	SNOMED	131600007	Active	
Galloway	SNOMED	66911005	Active	
Gaolao	SNOMED	133606005	Active	
Gascon	SNOMED	131601006	Active	
Gelbray X zebu	SNOMED	133731004	Active	
Gelbveih	SNOMED	76497003	Active	
German Angus	SNOMED	133582003	Active	
German Fleck-Vieh	SNOMED	67448000	Active	
German Red Pied	SNOMED	131602004	Active	
Gir	SNOMED	32938007	Active	
Glan	SNOMED	131603009	Active	
Gloucester	SNOMED	131604003	Active	
Grauvieh	SNOMED	7901000009103	Active	
Greek Shorthorn	SNOMED	133420006	Active	
Greek Steppe	SNOMED	133421005	Active	
Groningen Whiteheaded	SNOMED	131605002	Active	Synonym "Groninger"
Guernsey	SNOMED	84839000	Active	Synonym "Alderney" <a href="http://www.alderneysociety.org/alldcow.html">http://www.alderneysociety.org/alldcow.html</a>
Gujarati	SNOMED	112485003	Active	
Guzerat	SNOMED	133699005	Active	Synonym "Guzera"
Hallikar	SNOMED	133607001	Active	
Hariana	SNOMED	133608006	Active	
Hartón	SNOMED	131606001	Active	
Hays converter	SNOMED	23629009	Active	
Hereford	SNOMED	125074003	Active	



## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Herens	SNOMED	133231000	Active	
Hinterwald	SNOMED	133232007	Active	
Holando-argentino	SNOMED	52251000009102	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/holandoargentino/index.htm">http://www.ansi.okstate.edu/breeds/cattle/holandoargentino/index.htm</a>
Holstein-Friesian	SNOMED	26105007	Active	Synonym "Holstein"
Horned Hereford	SNOMED	7843000	Active	
Horro	SNOMED	131433006	Active	
Hungarian Gray	SNOMED	133233002	Active	
Ibage X zebu	SNOMED	133807003	Active	
Illawarra	SNOMED	133235009	Active	Synonyms "Illawarra Shorthorn" "Shorthorn Illawara" <a href="http://en.wikipedia.org/wiki/Milking_Shorthorn">http://en.wikipedia.org/wiki/Milking_Shorthorn</a>
Indo-Brazilian	SNOMED	133609003	Active	
Irish Moiled	SNOMED	133236005	Active	
Israeli Holstein	SNOMED	133237001	Active	
Israeli Red	SNOMED	133583008	Active	
Istoben	SNOMED	133238006	Active	
Jamaica Black X zebu	SNOMED	133732006	Active	
Jamaica Hope X zebu	SNOMED	133733001	Active	
Jamaica Red X zebu	SNOMED	133734007	Active	
Jaulan	SNOMED	133239003	Active	
Jersey	SNOMED	51937006	Active	
Kangayam	SNOMED	133610008	Active	
Kankrej	SNOMED	133611007	Active	
Karan Fries X zebu	SNOMED	133735008	Active	
Karan Swiss X zebu	SNOMED	133736009	Active	
Kazakh	SNOMED	133240001	Active	
Kerry	SNOMED	133241002	Active	
Kherigarh	SNOMED	133613005	Active	
Khillari	SNOMED	133614004	Active	
Kholmogory	SNOMED	133242009	Active	
Kilis	SNOMED	133459002	Active	
Krishna Valley	SNOMED	133615003	Active	
Kurdi	SNOMED	133252008	Active	
Kuri	SNOMED	131434000	Active	
Latvian Brown	SNOMED	133243004	Active	
Limousin	SNOMED	48702000	Active	
Limpurger	SNOMED	133491001	Active	
Lincoln red	SNOMED	3216001	Active	
Lineback	SNOMED	133584002	Active	Synonym "American Lineback"
Lithuanian Red	SNOMED	133245006	Active	
Lohani	SNOMED	133616002	Active	
Longhorn	SNOMED	66314009	Active	
Lourdais	SNOMED	133493003	Active	
Luving	SNOMED	21553004	Active	
Madagascar Zebu	SNOMED	133710002	Active	
Maine Anjou	SNOMED	45284002	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Malvi	SNOMED	133617006	Active	
Mandalong Special	SNOMED	52261000009104	Active	
Marchigiana	SNOMED	65344003	Active	Synonym "Marky" <a href="http://www.bovinebazaar.com/whythisbreed.htm">http://www.bovinebazaar.com/whythisbreed.htm</a>
Maremmana	SNOMED	131495001	Active	
Masai	SNOMED	409908002	Active	
Mashona	SNOMED	133246007	Active	
Maure	SNOMED	133723009	Active	
Mazandarani	SNOMED	133724003	Active	
Meusse-Rhine-Ijssel	SNOMED	6112002	Active	<a href="http://www.mri.org.uk/">http://www.mri.org.uk/</a>
Mewati	SNOMED	133618001	Active	
Milking Devon	SNOMED	133247003	Active	
Milking Shorthorn	SNOMED	78541007	Active	Synonym "Dairy Shorthorn"
Mirandesa	SNOMED	133248008	Active	
Mixed breed	SNOMED	409906003	Active	Synonym "Crossbred"
Modicana	SNOMED	131501004	Active	
Mongolian	SNOMED	133250000	Active	
Montbeliard	SNOMED	133522001	Active	
Morucha	SNOMED	133251001	Active	
Murboden	SNOMED	133268002	Active	
Murray Gray	SNOMED	133471008	Active	Synonym "Tasmanian Grey" <a href="http://en.wikipedia.org/wiki/Tasmanian_Grey">http://en.wikipedia.org/wiki/Tasmanian_Grey</a>
Nagori	SNOMED	133619009	Active	
Nanyang	SNOMED	131504007	Active	
N'dama	SNOMED	133253003	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/ndama/">http://www.ansi.okstate.edu/breeds/cattle/ndama/</a>
Nellore	SNOMED	76604009	Active	
Nguni	SNOMED	131435004	Active	
Nimari	SNOMED	133621004	Active	
Normandie	SNOMED	81267004	Active	Synonym "Normande" <a href="http://www.britishnormandecattle.co.uk/homepage.htm">http://www.britishnormandecattle.co.uk/homepage.htm</a>
Norwegian Red	SNOMED	133254009	Active	
Ongole	SNOMED	52271000009108	Active	
Orma Boran	SNOMED	52281000009105	Active	
Oropa	SNOMED	133536006	Active	
Ovambo	SNOMED	131513009	Active	
Ox	SNOMED	73169008	Active	
Parthenais	SNOMED	133255005	Active	
Philippine Native	SNOMED	131436003	Active	
Pie Rouge de l'Est	SNOMED	133403007	Active	Synonym "Pie Rouge" under the assumption that this name does not refer to "Pie Rouge des Plaines" a dairy breed in the NW part of France.
Piedmontese	SNOMED	4880003	Active	
Pinzgauer	SNOMED	400003	Active	
Polish Red	SNOMED	133256006	Active	
Polled Hereford	SNOMED	9277006	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Polled Jersey	SNOMED	133416007	Active	
Polled Lincoln Red	SNOMED	133417003	Active	
Polled Shorthorn (US)	SNOMED	133418008	Active	
Polled Simmental	SNOMED	133419000	Active	
Ponwar	SNOMED	133622006	Active	
Qinchuan	SNOMED	133446005	Active	
Ranger X zebu	SNOMED	133825005	Active	
Rath	SNOMED	133623001	Active	
Rathi	SNOMED	133624007	Active	
Rätien Gray	SNOMED	133257002	Active	<a href="http://www.embryoplus.com/cattle/ratien_gray.html">http://www.embryoplus.com/cattle/ratien_gray.html</a>
Red			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Red" (1012)
Red and White	SNOMED	133258007	Active	Synonym "Red Holstein"
Red Angus	SNOMED	133259004	Active	
Red Brangus X zebu	SNOMED	133749004	Active	
Red Flemish	SNOMED	133386001	Active	Synonyms "Rouge du Nord" & "West Flemish Red" <a href="http://www.tiho-hannover.de/einricht/zucht/eaap/breedlst/1_2total.htm">http://www.tiho-hannover.de/einricht/zucht/eaap/breedlst/1_2total.htm</a>
Red Friesian	SNOMED	133586000	Active	Synonym "Red Pied Friesian"
Red Galloway	SNOMED	133449003	Active	
Red Poll	SNOMED	88807001	Active	
Red Polled Østland	SNOMED	133260009	Active	
Red Sindhi	SNOMED	133625008	Active	
Red Steppe	SNOMED	133261008	Active	
Red White Faced			Retired	Recommended: SubjectTaxonomy "Mixed breed cattle" (409906003) in addition to SubjectDescriptor "Red white face " (1028)
Reggiana	SNOMED	133262001	Active	
Retinta	SNOMED	133263006	Active	
Roan (blue or red)			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to either SubjectDescriptor "Blue Roan" (1023) or "Red Roan" (1027)
Rojhan	SNOMED	133626009	Active	
Romagnola	SNOMED	131437007	Active	
Romosinuano cattle breed (organism)	SNOMED	133264000	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Rotbunte			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Red" (1012)
Russian Black Pied	SNOMED	133265004	Active	
RX3	SNOMED	133266003	Active	
Sahiwal	SNOMED	133627000	Active	
Salers	SNOMED	90612002	Active	
Salorn	SNOMED	133267007	Active	
San Martinero	SNOMED	133269005	Active	
Sanhe	SNOMED	131438002	Active	
Santa Cruz X zebu	SNOMED	133750004	Active	
Santa Gertudis	SNOMED	5345000	Active	
Sarabi	SNOMED	133270006	Active	
Scottish Highland	SNOMED	83173002	Active	
Senepol	SNOMED	132781001	Active	
Sharabi	SNOMED	133271005	Active	
Shaver Beef Blend	SNOMED	5229100009107	Active	<a href="http://www.beef.org.nz/research/breeding/breed_xbreed.asp">http://www.beef.org.nz/research/breeding/breed_xbreed.asp</a>
Shetland	SNOMED	133272003	Active	
Shorthorn	SNOMED	80835003	Active	
Siboney X zebu	SNOMED	133751000	Active	
Simbrah	SNOMED	133273008	Active	Synonyms "Brahmental", "Simbra", and "Simbrasil" <a href="http://www.simmental.org/userimages/Simbrah%20-%20The%20Best%20of%20Both%20Breeds.pdf">http://www.simmental.org/userimages/Simbrah%20-%20The%20Best%20of%20Both%20Breeds.pdf</a>
Simmental	SNOMED	28483003	Active	
Siri zebu	SNOMED	133628005	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/siri/index.htm">http://www.ansi.okstate.edu/breeds/cattle/siri/index.htm</a>
Slovenian Cika	SNOMED	5231100009108	Active	<a href="http://www.ansi.okstate.edu/breeds/cattle/sloveniancika/index.htm">http://www.ansi.okstate.edu/breeds/cattle/sloveniancika/index.htm</a>
South Devon	SNOMED	133274002	Active	
Sussex	SNOMED	133276000	Active	
Swedish Friesian	SNOMED	5230100009106	Active	<a href="http://neurocad.lva.lt/Breeds/SwedishBreeds.htm">http://neurocad.lva.lt/Breeds/SwedishBreeds.htm</a>
Swedish Red Polled	SNOMED	133277009	Active	
Swedish Red-and-white	SNOMED	5232100009100	Active	<a href="http://neurocad.lva.lt/Breeds/SwedishBreeds.htm">http://neurocad.lva.lt/Breeds/SwedishBreeds.htm</a>
Tabapua	SNOMED	133787007	Active	
Tarentaise	SNOMED	50959000	Active	
Taurindicus			Retired	Recommended: SubjectTaxonomy "Mixed breed cattle" (409906003) in addition to free text descriptor
Telemark	SNOMED	133278004	Active	
Texas Longhorn	SNOMED	133279007	Active	
Texon	SNOMED	133280005	Active	
Tharparkar	SNOMED	133629002	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Tswana	SNOMED	131439005	Active	
Tuli	SNOMED	131440007	Active	
Turkish Gray Steppe	SNOMED	131537009	Active	
Ukrainian Gray	SNOMED	131544000	Active	
Ukrainian Whiteheaded	SNOMED	133555006	Active	
Umblachery	SNOMED	133671001	Active	
Ural Black Pied	SNOMED	133556007	Active	
Vestland Fjord	SNOMED	133281009	Active	
Vestland Red Polled	SNOMED	133282002	Active	
Vosges	SNOMED	133589007	Active	
Wagyu	SNOMED	133283007	Active	
White			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "White" (1014)
White Cáceres	SNOMED	133284001	Active	Synonym "Blanca Cacerena"
White Galloway	SNOMED	133569006	Active	
White Park	SNOMED	26525003	Active	
Xinjiang Brown	SNOMED	133285000	Active	
Yanbian	SNOMED	133286004	Active	

### ***Goat breed subset***

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Alpine	SNOMED	70431006	Active	
American Cashmere	SNOMED	131617000	Active	
Anglo nubian	SNOMED	16015002	Active	
Angora goat	SNOMED	64158000	Active	
Boer goat	SNOMED	131656006	Active	
Dairy-type crossbred			Retired	Recommended: SubjectTaxonomy "Mixed Breed goat" (131607005) in addition to SubjectFunction "Dairy" (DA)
Fiber-type crossbred			Retired	Recommended: SubjectTaxonomy "Mixed Breed goat" (131607005) in addition to SubjectFunction "Fiber" (FB)
Golden Guernsey	SNOMED	131660009	Active	
Kiko	SNOMED	131670006	Active	
La Mancha	SNOMED	55530007	Active	
Meat-type crossbred			Retired	Recommended: SubjectTaxonomy "Mixed Breed goat" (131607005) in addition to SubjectFunction "Meat" (MT)
Mixed Breed goat	SNOMED	131607005	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Multiple Breeds Present			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Multiple Breeds" (1007)
Myotonic	SNOMED	131623005	Active	
Nigerian Dwarf	SNOMED	131625003	Active	
Oberhasli	SNOMED	131632007	Active	
Pygmy	SNOMED	684003	Active	
Pygora	SNOMED	131672003	Active	
Saanen	SNOMED	21208000	Active	
Sable Saanen	SNOMED	32341000009108	Active	
Spanish	SNOMED	131638006	Active	
Toggenburg	SNOMED	30089001	Active	

### *Sheep breed subset*

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Acipayam	SNOMED	32361000009109	Active	
Adal	SNOMED	32371000009100	Active	
Afghan Arabi	SNOMED	32381000009103	Active	
Africana	SNOMED	131768005	Active	
Alai	SNOMED	32391000009101	Active	
Alcarrena	SNOMED	32401000009103	Active	
Algarve Churro	SNOMED	32411000009101	Active	
Algerian Arab	SNOMED	32421000009109	Active	
Altai	SNOMED	32431000009106	Active	
Altay	SNOMED	132845007	Active	
American Blackbelly	SNOMED	32351000009106	Active	
Apennine	SNOMED	132811000	Active	
Arabi	SNOMED	132810004	Active	
Arapawa Island	SNOMED	132809009	Active	
Argentine Merino	SNOMED	32441000009100	Active	
Arles Merino	SNOMED	32451000009102	Active	
Armenian Semicoarsewool	SNOMED	32471000009108	Active	
Askanian	SNOMED	32481000009105	Active	
Awassi	SNOMED	132808001	Active	
Balkhi	SNOMED	132804004	Active	
Baluchi	SNOMED	132861009	Active	
Balwen Welsh Mountain	SNOMED	132813002	Active	
Barbado	SNOMED	132860005	Active	
Barbados Blackbelly	SNOMED	132806002	Active	
Basco-Béarnais	SNOMED	32491000009107	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Bavarian Forest	SNOMED	132805003	Active	
Bentheimer Landschaf	SNOMED	132859000	Active	
Bergamasca	SNOMED	132681007	Active	
Berrichon du Cher	SNOMED	32501000009104	Active	
Beulah Speckled-Face	SNOMED	131716003	Active	
Bibrik	SNOMED	131704009	Active	
Biellese	SNOMED	131788009	Active	
Black Welsh Mountain Sheep	SNOMED	131706006	Active	
Black-faced			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Black-face sheep" (1003);
Blackhead Persian	SNOMED	131707002	Active	
Bleu du Maine	SNOMED	131708007	Active	
Bluefaced Leicester	SNOMED	131709004	Active	
Bond	SNOMED	131710009	Active	
Booroola Merino	SNOMED	132735001	Active	
Border Cheviot	SNOMED	1191000009104	Active	
Border Leicester	SNOMED	131711008	Active	
Boreray	SNOMED	131712001	Active	
Bovska	SNOMED	131713006	Active	
Braunes Bergschaf	SNOMED	131714000	Active	
Brazilian Somali	SNOMED	131715004	Active	
Brecknock Hill Cheviot	SNOMED	131702008	Active	
Brillenschaf	SNOMED	131701001	Active	
British Milk Sheep	SNOMED	131700000	Active	
Bunndner Oberland	SNOMED	131699001	Active	
California Red	SNOMED	131795000	Active	
California Variegated Mutant	SNOMED	131794001	Active	
Campanian Barbary	SNOMED	131793007	Active	
Canadian Arcott	SNOMED	132689009	Active	
Castlemilk Moorit	SNOMED	131792002	Active	
Charollais	SNOMED	131791009	Active	
Cheviot	SNOMED	50717006	Active	
Cholistani	SNOMED	131703003	Active	
Cine Capari	SNOMED	32511000009102	Active	
Clun Forest	SNOMED	48697009	Active	
Coburger Fuchsschaf	SNOMED	131736002	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Columbia Cross			Retired	Recommended: SubjectTaxonomy "Mixed Breed sheep" (406722006) in addition to free text phrase or locally standardized concept (e.g. "Columbia Cross") in a supplementary subject descriptor data field
Columbia	SNOMED	131705005	Active	
Comeback	SNOMED	131766009	Active	
Comisana	SNOMED	131765008	Active	
Coopworth	SNOMED	131764007	Active	
Cormo	SNOMED	131753009	Active	
Corriedale	SNOMED	67515002	Active	
Cotswold	SNOMED	67414001	Active	
Crossbred - Large			Retired	Recommended: SubjectTaxonomy "Mixed Breed sheep" (406722006) in addition to SubjectDescriptor "Large" (1002)
Crossbred - Medium			Retired	Recommended: SubjectTaxonomy "Mixed Breed sheep" (406722006) in addition to SubjectDescriptor "Medium" (1001)
Crossbred - Small			Retired	Recommended: SubjectTaxonomy "Mixed Breed sheep" (406722006) in addition to SubjectDescriptor "Small" (1000)
Daglic	SNOMED	32521000009105	Active	
Dala	SNOMED	131751006	Active	
Dalesbred	SNOMED	131750007	Active	
Damani	SNOMED	131749007	Active	
Damara	SNOMED	131748004	Active	
Dartmoor	SNOMED	131717007	Active	
Debouillet	SNOMED	44835005	Active	
Delaine merino	SNOMED	46392004	Active	
Derbyshire Gritstone	SNOMED	131735003	Active	
Deutsches Blaukoepfiges Fleischschaf	SNOMED	131734004	Active	
Devon Closewool	SNOMED	131733005	Active	
Devon Longwoolled	SNOMED	32531000009107	Active	
DLS	SNOMED	132855006	Active	
Dorper	SNOMED	131732000	Active	
Dorset	SNOMED	25327001	Active	
Dorset Down	SNOMED	131722007	Active	
Drysdale	SNOMED	131721000	Active	
East Friesian	SNOMED	132853004	Active	
Elliottdale	SNOMED	131720004	Active	
Est À Laine Merino	SNOMED	32541000009101	Active	
Exmoor Horn	SNOMED	131719005	Active	
Fabrianese	SNOMED	131718002	Active	



## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Faeroes	SNOMED	132846008	Active	
Finnsheep	SNOMED	72329005	Active	
Finnish landrace	SNOMED	72329005	Active	
Florida Native	SNOMED	131731007	Active	
Fonthill Merino	SNOMED	132718000	Active	
Friesian Milk Sheep	SNOMED	131725009	Active	
Galway	SNOMED	406660008	Active	
Gansu Alpine Fine-wool	SNOMED	131726005	Active	
Gentile di Puglia	SNOMED	131740006	Active	
German Blackheaded Mutton	SNOMED	131723002	Active	
German Mountain	SNOMED	131741005	Active	
German Mutton Merino	SNOMED	132716001	Active	
German Whiteheaded Mutton	SNOMED	131727001	Active	
Ghezel	SNOMED	32551000009103	Active	
Gokceada	SNOMED	32561000009100	Active	
Graue Gehoernte Heidschnucke	SNOMED	131728006	Active	
Gromark	SNOMED	131730008	Active	
Gulf Coast Native	SNOMED	131731007	Active	
Gute	SNOMED	131738001	Active	
Hampshire	SNOMED	131739009	Active	
Han	SNOMED	131729003	Active	
Harnai	SNOMED	131775006	Active	
Hasht Nagri	SNOMED	131762006	Active	
Hazaragie	SNOMED	131763001	Active	
Hebridean	SNOMED	131770001	Active	
Herdwick	SNOMED	131772009	Active	
Herik	SNOMED	32571000009109	Active	
Hill Radnor	SNOMED	131773004	Active	
Hog Island	SNOMED	131787004	Active	
Horn Dorset	SNOMED	86920006	Active	
Hu	SNOMED	32581000009106	Active	
Hybrid	SNOMED		Retired	Recommended: SubjectTaxonomy "Mixed Breed sheep" (406722006) if this concept is used to represent a "Mixed Breed sheep"
Icelandic sheep	SNOMED	131774005	Active	
Ile-de-France	SNOMED	131761004	Active	
Istrian Pramenka	SNOMED	131776007	Active	
Jacob	SNOMED	131777003	Active	
Jezerskosolcavska	SNOMED	131778008	Active	
Kachhi	SNOMED	131779000	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Kajli	SNOMED	131786008	Active	
Karacabey Merino	SNOMED	32591000009108	Active	
Karayaka	SNOMED	32601000009100	Active	
Karakul	SNOMED	64591001	Active	
Katahdin	SNOMED	131743008	Active	
Kerry Hill	SNOMED	11967001	Active	
Kivircik	SNOMED	32611000009103	Active	
Kooka	SNOMED	131724008	Active	
Lacaune dairy	SNOMED	7981000009105	Active	
Landais	SNOMED	32621000009106	Active	
Langhe	SNOMED	131756001	Active	
Lati	SNOMED	131754003	Active	
Leicester	SNOMED	6431001	Active	
Leicester - English	SNOMED	6431001	Active	
Leicester - Hexam	SNOMED	131709004	Active	
Leineschaf	SNOMED	131744002	Active	
Lincoln	SNOMED	65492002	Active	
Llanwenog	SNOMED	131746000	Active	
Lleyn	SNOMED	131747009	Active	
Lohi	SNOMED	131760003	Active	
Lonk	SNOMED	131755002	Active	
Louisiana Native	SNOMED	131731007	Active	
Luzein	SNOMED	131742003	Active	
Maltese	SNOMED	32631000009108	Active	
Manchega	SNOMED	32641000009102	Active	
Manech	SNOMED	32651000009104	Active	
Manx Loaghtan	SNOMED	131757005	Active	
Masai	SNOMED	131758000	Active	
Massese	SNOMED	32671000009105	Active	
Medium-Wool Merino	SNOMED	132717005	Active	
Mehraban	SNOMED	32681000009107	Active	
Merino sheep superbreed	SNOMED	125101009	Active	
Merinizzata Italiana	SNOMED	32691000009109	Active	
Merinolandschaf	SNOMED	131759008	Active	
Miniature Southdown			Retired	Recommended: Use as synonym for SubjectTaxonomy "Olde English Babydoll Southdown" (32731000009101)
Mixed Breed sheep	SNOMED	406722006	Active	
Moghani	SNOMED	32661000009101	Active	
Mottled-faced			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Mottled-face sheep" (1005)

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Montdale	SNOMED	5164003	Active	
Morada Nova	SNOMED	32701000009109	Active	
Mouflon	SNOMED	45690005	Active	
Mule Sheep			Retired	A "Mule" sheep, or more correctly a "Mule ewe", is a crossbred ewe whose cross is one of the "upland" breed ewes in the UK with a Bluefaced Leicester ram. These Mule ewes are then bred to Suffolks or Texels (referred to as terminal sires). This is part of a "3-tier" breeding scheme for market lamb in the UK. Recommended: SubjectTaxonomy "Mixed Breed sheep" (406722006) in addition to free text phrase or locally standardized concept (e.g. "Mule Sheep") in a supplementary descriptor data field
Multiple Breeds Present			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Multiple Breeds" (1007)
Natural Colored			Retired	A "Natural Colored sheep" is a sheep within ANY breed that has color, black, grey, silver, brown, beige, red, and blonde. So this is a color subject descriptor, not a breed. From www.ncwga.org: "Almost every breed of sheep is now represented..."; Recommended: use appropriate SubjectTaxonomy in addition to either free text phrase or SubjectDescriptor Color
Navajo	SNOMED	59210004	Active	
Navajo-Churro	SNOMED	131838009	Active	
Nellore	SNOMED	32711000009106	Active	
Newfoundland	SNOMED	132701004	Active	
Norfolk Horn	SNOMED	131837004	Active	
North County cheviot	SNOMED	87962009	Active	
North Ronaldsay	SNOMED	32721000009103	Active	
Norwegian Fur	SNOMED	131836008	Active	
Olde English Babydoll Southdown	SNOMED	32731000009101	Active	
Outaouais Arcott	SNOMED	132857003	Active	
Oxford Down	SNOMED	53360003	Active	
Panama	SNOMED	13934009	Active	
Perendale	SNOMED	41706005	Active	
Poll Merino	SNOMED	132721003	Active	
Polled dorset	SNOMED	7971000009108	Active	
Polypay	SNOMED	131823008	Active	
Rambouillet	SNOMED	2124007	Active	
Rideau Arcott	SNOMED	132703001	Active	

## Appendix B: Subject Taxonomy

Concept Name	Coding System	Concept Unique Identifier (CUI)	VS Concept State	Notes
Romanov	SNOMED	32145006	Active	
Romnelet	SNOMED	112487006	Active	
Romney	SNOMED	132807006	Active	
Rouge de l'Quest	SNOMED	132789004	Active	
Royal White	SNOMED	32741000009107	Active	
Ryeland	SNOMED	132706009	Active	
Scottish Blackface	SNOMED	1211000000000	Active	
Shetland	SNOMED	131801009	Active	
Shropshire	SNOMED	4574003	Active	
Soay	SNOMED	132790008	Active	
Solid face color, not black			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "Solid-face sheep" (1013)
Southdown	SNOMED	3566006	Active	
South African Mutton Merino	SNOMED	132719008	Active	
St. Croix	SNOMED	132795003	Active	
Steigar	SNOMED	132796002	Active	
Suffolk	SNOMED	72648002	Active	
Targhee	SNOMED	89665001	Active	
Teeswater	SNOMED	132800008	Active	Added 2008.12.11
Texel Cross			Retired	Recommended: SubjectTaxonomy "Mixed Breed sheep" (406722006) in addition to supporting storage of the free text or the appropriate mixed breed phrase (e.g. "Texel Cross") in a supplementary descriptor data field
Texel	SNOMED	132801007	Active	
Tunis	SNOMED	132710007	Active	
Wensleydale	SNOMED	131780002	Active	
White Dorper			Retired	Recommended: SubjectTaxonomy "Dorper sheep breed (organism)" (131732000) For in addition to SubjectDescriptor "White" (1014)
White-faced			Retired	Recommended: NullFlavor "No Information" (2.16.840.1.113883.1.11.10610) in addition to SubjectDescriptor "White-face sheep" (1004)
Wiltshire horn	SNOMED	39855006	Active	