

APPENDIX VII**Part 1****REVISION OF THE CLASSIFICATION OF FOODS AND ANIMAL FEEDS (CXA4 – 1989)****CLASS C – PRIMARY FEED COMMODITIES****TYPE 11 – PRIMARY FEED COMMODITIES OF PLANT ORIGIN**

(At Step 5/8)

(For adoption by CAC)

Type	No.	Group	Group Letter Code
11 Primary feed commodities of plant origin			
	050	Legume feed products	
		Subgroup 050A: Products of legume feeds with high water (≥20%) content (forage and silage)	AL
		Subgroup 050B: Products of legume feeds with low water (<20%) content (hay)	AL
		Subgroup 050C: Processed products of legume feeds (such as meal, hulls)	AL
	051	Cereal grains (including pseudocereals) and grass feed products	
		Subgroup 051A: Cereal grains (including pseudocereals) feed products with high water (≥20%) content (forage and silage)	AS
		Subgroup 051B: Cereal grains (including pseudocereals) feed products with low water (<20%) content (hay, straw)	AS
		Subgroup 051C: Cereal grains (including pseudocereals) processed products (such as bran, hulls)	AS
		Subgroup 051D: Grasses for Animal Feed	AS
	052	Miscellaneous feed products	
		Subgroup 052A: Miscellaneous feed products with high water (≥20%) content (forage, beet tops)	AM
		Subgroup 052B: Miscellaneous feed products with low water (<20%) content (hay)	AM
		Subgroup 052C: Miscellaneous processed products (such as meal, hulls, dried pulp)	AM

CLASS C PRIMARY FEED COMMODITIES

For the purpose of the Codex Alimentarius the term “primary feed commodity” means the product in or nearly in its natural state intended for sale to:

- (a) the stock farmer as feed which is used without further processing for livestock animals or after silaging or similar farm processes.
- (b) to the animal feed industry as a raw material for preparing compounded feeds.

Legume feeds

Class C

Type 11 Primary feed commodities of plant origin Group 050 Group Letter Code AL

Group 050. Legume animal feeds include various species of leguminous plants used for animal forage, grazing, hay or silage, with or without seed and processed products. Several species are grown exclusively for animal feeding purposes, whereas some others are grown primarily as food crops. The “waste” parts of the latter crops are often used as animal feed, either in the fresh form or as hay.

The entire commodity may be consumed by livestock animals.

Portion of the commodity to which the MRL applies (and which is analyzed): **Whole commodity as presented for wholesale or retail distribution.**

In view of the wide range of moisture contents in most animal feeds, except straws, moving in commerce, the MRLs should preferably be set and expressed on a “dry-weight” basis.

A “dry-weight” basis implies that the commodity is analyzed for pesticide residues as received, that the moisture content is determined, preferably by a standard method for use on the relevant commodity, and the residue content is then calculated as if it were wholly contained in the dry matter.

The residues are expressed on a dry-weight basis if not otherwise stated. To avoid confusion caused by the not always consistent commodity description, the “dry-weight” basis, will be indicated, if relevant, with the designation “dry-weight” after the residue figure e.g.

pea vines (green)	;	x mg/kg dry weight
pea hay	;	x mg/kg dry weight

This Group is divided into 3 subgroups:

	Code
Subgroup 050A: Products of legume feeds with high water ($\geq 20\%$) content (forage and silage)	AL
Subgroup 050B: Products of legume feeds with low water ($< 20\%$) content (hay)	AL
Subgroup 050C: Processed products of legume feeds (such as meal, hulls)	AL

Group 050 LEGUME FEED PRODUCTSAL 0157 **Group of Legume animal feeds****Subgroup 050A, Products of legume feeds with high water (≥20%) content (forage and silage)**

<u>Code No.</u>	<u>Commodity</u>
AL 3300	Subgroup of Products of legume feeds with high water (≥20%) content (forage and silage) (includes all commodities in this subgroup)
AL 1021	Alfalfa, forage <i>Medicago sativa</i> L., subsp. <i>sativa</i> L.
AL 3493	Alfalfa, silage <i>Medicago sativa</i> L., subsp. <i>sativa</i> L.
AL 3494	Anil indigo, forage <i>Indigofera suffruticosa</i> Mill.
AL 1030	Bean, forage <i>Phaseolus</i> spp.
AL 3495	Bean, forage <i>Vigna</i> spp.
-	Bean, Adzuki, forage, see Bean, forage, AL 3495 <i>Vigna angularis</i> (Willd.) Ohwi & H. Ohashi var. <i>angularis</i>
AL 3496	Berlandier acacia, forage <i>Senegalia berlandieri</i> (Benth.) Britton & Rose
AL 3497	Black medic, forage <i>Medicago lupulina</i> L.
AL 3498	Black wattle, forage <i>Acacia mearnsii</i> DeWild.
AL 3499	Brazilian stylo, forage <i>Stylosanthes guianensis</i> (Aubl.) Sw. <i>Stylosanthes hamata</i> (L.) Taub.
AL 3500	Burclover, forage <i>Medicago</i> spp.; Burclover, California, <i>Medicago polymorpha</i> L.; Burclover, spotted, <i>Medicago arabica</i> (L.) Huds.
AL 3501	Butterfly pea, forage <i>Centrosema pubescens</i> Benth.
-	Chickling vetch, forage, see Vetch, forage, AL 1029
AL 3502	Chick-pea, forage <i>Cicer arietinum</i> L.

AL 1023	Clover, forage <i>Trifolium</i> spp. and <i>Melilotus</i> spp.; Clover, alsike, <i>Trifolium hybridum</i> L.; Clover, alyce, <i>Alysicarpus vaginalis</i> (L.) DC.; Clover, arrowleaf, <i>Trifolium vesiculosum</i> Savi; Clover, ball, <i>Trifolium nigrescens</i> Viv.; Clover, Beirut, <i>Trifolium berytheum</i> Boiss. & Blanche; Clover, berseem, <i>Trifolium alexandrinum</i> L.; Clover, bigflower, <i>Trifolium michelianum</i> Savi; Clover, clustrer, <i>Trifolium glomeratum</i> L.; Clover, crimson, <i>Trifolium incarnatum</i> L.; Clover, Egyptian, <i>Trifolium alexandrinum</i> L.; Clover, hop, <i>Trifolium campestre</i> Schreb.; Clover, Kura, <i>Trifolium ambiguum</i> M. Bieb.; Clover, lappa, <i>Trifolium lappaceum</i> L.; Clover, large hop, <i>Trifolium aureum</i> Pollich; Clover, Persian, <i>Trifolium resupinatum</i> L.; Clover, red, <i>Trifolium pratense</i> L.; Clover, rose, <i>Trifolium hirtum</i> All.; Clover, Rueppell's, <i>Trifolium rueppellianum</i> Fresen.; Clover, sea, <i>Trifolium squamosum</i> L.; Clover seaside, <i>Trifolium wormskioldii</i> Lehm.; Clover, small hop, <i>Trifolium dubium</i> Sibth.; Clover, sour, <i>Melilotus indicus</i> (L.) All.; Clover, strawberry, <i>Trifolium fragiferum</i> L.; Clover striate, <i>Trifolium striatum</i> L.; Clover sub, <i>Trifolium subterraneum</i> L.; Clover, tall yellow sweet, <i>Melilotus altissimus</i> Thuill.; Clover, tomcat, <i>Trifolium willdenovii</i> Spreng.; Clover, white, <i>Trifolium repens</i> L.; Clover, white sweet, <i>Melilotus albus</i> Medik.; Clover, whitetip, <i>Trifolium variegatum</i> Nutt.; Clover, yellow sweet, <i>Melilotus officinalis</i> Lam.; Clover, zigzag, <i>Trifolium medium</i> L.; Spärrklöver, <i>Trifolium squarrosus</i> L.
AL 3503	Clover, silage <i>Trifolium</i> spp. and <i>Melilotus</i> spp. (see AL 1023, Clover, forage for included species)
-	Cowpea, forage , see Bean, forage, AL 3495 <i>Vigna unguiculata</i> (L.) Walp.
AL 3504	Gliricidia, forage <i>Gliricidia sepium</i> (Jacq.) Kunth
-	Grass pea, forage , see Vetch, forage, AL 1029
AL 3505	Horse bean, forage <i>Vicia faba</i> L. var. <i>equina</i> St.-Amans
AL 3506	Huisache, forage <i>Vachellia farnesiana</i> (L.) Wight & Arn.
AL 1024	Kudzu, forage <i>Pueraria montana</i> (Lour.) Merr. var. <i>lobata</i> (Willd.) Maesen & S. M. Almeida ex Sanjappa & Predeep
-	Kudzu, Tropical, forage , see Kudzu, forage, AL 1024 <i>Neustanthus phaseoloides</i> (Roxb.) Benth.
AL 3507	Leadplant, forage <i>Amorpha canescens</i> Pursh
AL 3508	Lentil, forage <i>Lens culinaris</i> Medik. subsp. <i>culinaris</i>
AL 1025	Lespedeza, forage <i>Lespedeza</i> spp. and <i>Kummerowia</i> spp.; Lespedeza, Korean, <i>Kummerowia stipulacea</i> (Maxim.) Makino; Lespedeza, sericea, <i>Lespedeza cuneata</i> (Dum. Cours.) G. Don; Lespedeza, striate, <i>Kummerowia striata</i> (Thunb.) Schindl.
AL 3509	Leucaena, forage <i>Leucaena leucocephala</i> (Lam.) de Wit, <i>Acaciella glauca</i> (L.) L. Rico
AL 3510	Leucaena, silage <i>Leucaena leucocephala</i> (Lam.) de Wit, <i>Acaciella glauca</i> (L.) L. Rico

AL 0545	Lupin, forage <i>Lupinus</i> spp.; Lupin, blue, <i>Lupinus albus</i> L.; Lupin, pearl, <i>Lupinus mutabilis</i> Sweet; Lupin, white, <i>Lupinus albus</i> L. var. <i>albus</i> ; Lupin, yellow, <i>Lupinus luteus</i> L.
-	Melilot, forage, see Clover, forage, AL 1023 <i>Melilotus</i> spp.
AL 3511	Pea, silage <i>Pisum</i> spp.
AL 0528	Pea, vines (green) <i>Pisum</i> spp.
AL 1270	Peanut, forage (green) <i>Arachis hypogaea</i> L.
AL 0537	Pea, pigeon, forage <i>Cajanus cajan</i> (L.) Huth
-	Puero, forage see Kudzu, forage, AL 1024 <i>Pueraria phaseoloides</i> (Roxb.) Benth.
AL 3512	Purple prairie clover, forage <i>Dalea purpurea</i> Vent.
AL 3513	Roundleaf cassia, forage <i>Chamaecrista rotundifolia</i> (Pers.) Greene
AL 1027	Sainfoin, forage <i>Onobrychis viciifolia</i> Scop. syn: <i>O. sativa</i> Lamk.
AL 3514	Sainfoin, silage <i>Onobrychis viciifolia</i> Scop.
AL 3515	Sensitive partridge pea, forage <i>Chamaecrista nictitans</i> (L.) Moench
-	Sericea, forage, see Lespedeza, forage, AL 1025
AL 3516	Sesbania, forage <i>Sesbania exaltata</i> (Raf.) Rydb.
AL 1265	Soya bean, forage <i>Glycine max</i> (L.) Merr;
AL 3517	Soya bean, silage <i>Glycine max</i> (L.) Merr;
AL 3518	Thorn mimosa, forage <i>Vachellia nilotica</i> (L.) P. J. H. Hurter & Mabb. subsp. <i>Nilotica</i>
AL 3519	Tick clover, forage <i>Desmodium</i> spp.

AL 1028	<p>Trefoil, forage</p> <p><i>Lotus</i> spp.; Trefoil, big, <i>Lotus uliginosus</i> Schkuhr; Trefoil, birdsfoot, <i>Lotus corniculatus</i>, L.; Trefoil, narrowleaf, <i>Lotus tenuis</i> Waldst. & Kit. ex Willd.; Bigleaf trefoil, <i>Lotus uliginosus</i> Schkuhr</p>
-	<p>Tropical kudzu, see Kudzu, forage, AL 1024</p>
-	<p>Vetch, Chickling, forage, see Vetch, forage, AL 1029</p> <p><i>Lathyrus sativus</i> L.</p>
-	<p>Vetch, Chickling, silage, see Vetch, silage, AL 3520</p> <p><i>Lathyrus sativus</i> L.</p>
-	<p>Vetch, Crown, forage, see Vetch, forage, AL 1029</p> <p><i>Coronilla varia</i> L.</p>
-	<p>Vetch, Crown, silage, see Vetch, silage, AL 3520</p> <p><i>Coronilla varia</i> L.</p>
AL 1029	<p>Vetch, forage</p> <p><i>Vicia</i> spp.; Vetch, bard, <i>Vicia monantha</i> Retz. Vetch, common, <i>Vicia sativa</i> L. spp. <i>sativa</i>; Vetch, crown, <i>Securigera varia</i> (L.) Lassen; Vetch, hairy, <i>Vicia villosa</i> Roth ssp. <i>villosa</i>; Vetch, Hungarian, <i>Vicia pannonica</i> Crantz; Vetch, kidney, <i>Anthyllis vulneraria</i> L.; Vetch, milk, <i>Astragalus cicer</i> L.; Vetch, monantha, <i>Vicia articulata</i> Hornem.; Vetch, narrowleaf, <i>Vicia sativa</i> ssp. <i>nigra</i> (L.) Ehrh.; Vetch, purple, <i>Vicia benghalensis</i> L.</p>
-	<p>Vetch, Milk, forage, see Vetch, forage, AL 1029</p> <p><i>Astragalus</i> spp.</p>
-	<p>Vetch, Milk, silage, see Vetch, silage, AL 3520</p> <p><i>Astragalus</i> spp.</p>
AL 3520	<p>Vetch, silage</p> <p><i>Vicia</i> spp.; Vetch, bard, <i>Vicia monantha</i> Retz. Vetch, common, <i>Vicia sativa</i> L. spp. <i>sativa</i>; Vetch, crown, <i>Securigera varia</i> (L.) Lassen; Vetch, hairy, <i>Vicia villosa</i> Roth ssp. <i>villosa</i>; Vetch, Hungarian, <i>Vicia pannonica</i> Crantz; Vetch, kidney, <i>Anthyllis vulneraria</i> L.; Vetch, milk, <i>Astragalus cicer</i> L.; Vetch, monantha, <i>Vicia articulata</i> Hornem.; Vetch, narrowleaf, <i>Vicia sativa</i> ssp. <i>nigra</i> (L.) Ehrh.; Vetch, purple, <i>Vicia benghalensis</i> L.</p>

Subgroup 050B, Products of legume feeds with low water (<20%) content (hay)

<u>Code No.</u>	<u>Commodity</u>
AL 3301	Subgroup of Products of legume feeds with low water (<20%) content (hay) (includes all commodities in this subgroup)
AL 1020	Alfalfa, hay and/or straw <i>Medicago sativa</i> L., subsp. <i>sativa</i> L.
AL 0061	Bean, hay and/or straw <i>Phaseolus</i> spp.
AL 3521	Bean, hay and/or straw <i>Vigna</i> spp.
-	Bean, Adzuki, hay and/or straw , see Bean, hay and/or straw, AL 3521 <i>Vigna angularis</i> (Willd.) Ohwi & H. Ohashi var. <i>angularis</i>
-	Bean, Broad, hay and/or straw , See Bean, hay and/or straw, AL 0061 <i>Vicia faba</i> L. subsp. <i>faba</i> var. <i>faba</i>
-	Bean, goa, hay and/or straw , See Bean, hay and/or straw, AL 0061 <i>Psophocarpus tetragonolobus</i> (L.) DC.
-	Bean, lablab, hay and/or straw , See Bean, hay and/or straw, AL 0061 <i>Lablab purpureus</i> (L.) Sweet ssp. <i>purpureus</i>
-	Bean, mung, hay and/or straw , See Bean, hay and/or straw, AL 3521 <i>Vigna radiata</i> (L.) Wilczek var. <i>radiata</i>
-	Bean, rice, hay and/or straw , See Bean, hay and/or straw, AL 3521 <i>Vigna umbellata</i> (Thunb.) Ohwi & H. Ohashi
-	Bean, runner, hay and/or straw , See Bean, hay and/or straw, AL 0061 <i>Phaseolus coccineus</i> L.
-	Bean, tepary, hay and/or straw , See Bean, hay and/or AL 0061 <i>Phaseolus acutifolius</i> A. Gray var. <i>acutifolius</i>
-	Bean, urd, hay and/or straw , See Bean, hay and/or straw, AL 3521 <i>Vigna mungo</i> (L.) Hepper var. <i>mungo</i>
-	Bean, yardlong, hay and/or straw , See Bean, hay and/or AL 3521 <i>Vigna unguiculata</i> (L.) Walp. subsp. <i>unguiculata</i> group <i>sesquipedalis</i>
AL 1022	Bean, velvet, hay and/or straw <i>Mucuna pruriens</i> (L.) DC. var. <i>utilis</i> (Wall. ex Wight) Baker ex Burck
AL 3522	Brazilian stylo, hay and/or straw <i>Stylosanthes guianensis</i> (Aubl.) Sw. <i>Stylosanthes hamata</i> (L.) Taub.
-	Catjang, hay and/or straw , See Bean, hay and/or straw, AL 3521 <i>Vigna unguiculata</i> (L.) Walp. subsp. <i>unguiculata</i> group <i>biflora</i>
AL 3523	Centurion, hay and/or straw <i>Centrosema pascuorum</i> Murt. Ex Benth.

AL 0524	Chick-pea, hay and/or straw <i>Cicer arietinum</i> L.
AL 1031	Clover, hay and/or straw <i>Trifolium</i> spp. and <i>Melilotus</i> spp.
-	Cowpea, hay and/or straw , see Bean, hay and/or straw, AL 3521 <i>Vigna unguiculata</i> (L.) Walp.
AL 3524	Crotalaria, hay and/or straw <i>Crotalaria</i> spp.; <i>Crotalaria</i> , lance-leaf, <i>Crotalaria lanceolata</i> E. Mey.; <i>Crotalaria</i> , showy, <i>Crotalaria spectabilis</i> Roth; <i>Crotalaria</i> , slenderleaf, <i>Crotalaria brevidens</i> Benth.; <i>Crotalaria</i> , striped, <i>Crotalaria pallida</i> Aiton; <i>Sunn-hemp</i> , <i>Crotalaria juncea</i> L.
AL 4425	Guar, hay and/or straw <i>Cyamopsis tetragonoloba</i> (L.) Taub.
AL 0562	Horse gram, hay and/or straw <i>Macrotyloma uniflorum</i> (Lam.) Verde.
AL 0532	Jack bean, hay and/or straw <i>Canavalia ensiformis</i> (L.) DC.
AL 3525	Lespedeza, hay and/or straw <i>Lespedeza</i> spp. and <i>Kummerowia</i> spp.; <i>Lespedeza</i> , Korean, <i>Kummerowia stipulacea</i> (Maxim.) Makino; <i>Lespedeza</i> , sericea, <i>Lespedeza cuneata</i> (Dum. Cours.) G. Don; <i>Lespedeza</i> , striate, <i>Kummerowia striata</i> (Thunb.) Schindl.
AL 3526	Leucaena, hay and/or straw <i>Leucaena leucocephala</i> (Lam.) de Wit, <i>Acaciella glauca</i> (L.) L. Rico
AL 0072	Pea, hay and/or straw <i>Pisum</i> spp.
-	Pea, pigeon, hay and/or straw , see Pea, hay and/or straw, AL 0072 <i>Cajanus cajan</i> (L.) Huth
-	Pea, southern, hay and/or straw , see Bean, hay and/or straw, AL 3521 <i>Vigna unguiculata</i> (L.) Walp. subsp. <i>unguiculata</i> group <i>unguiculata</i>
AL 0697	Peanut, hay and/or straw <i>Arachis hypogaea</i> L.
AL 3527	Perennial peanut, hay and/or straw <i>Arachis glabrata</i> Benth. var. <i>glabrata</i> ; Pinto peanut, <i>Arachis pintoii</i> Krapov. & W.C. Greg
AL 3528	Purple prairie-clover, hay and/or straw <i>Dalea purpurea</i> Vent.
AL 3529	Sainfoin, hay and/or straw <i>Onobrychis viciifolia</i> Scop.
AL 0541	Soya bean, hay and/or straw <i>Glycine max</i> (L.) Merr;

- AL 3530 **Trefoil, hay and/or straw**
- Lotus* spp.; Trefoil, big, *Lotus uliginosus* Schkuhr; Trefoil, birdsfoot, *Lotus corniculatus*, L.; Trefoil, narrowleaf, *Lotus tenuis* Waldst. & Kit. ex Willd.; Bigleaf trefoil, *Lotus uliginosus* Schkuhr
- **Velvet bean, hay and/or straw**, see Bean, Velvet, hay and/or straw, AL 1022
- Mucuna pruriens* (L.) DC. var. *utilis* (Wall. ex Wight) Baker ex Burck
- AL 3531 **Vetch, hay and/or straw**
- Vicia* spp.; Vetch, bard, *Vicia monantha* Retz. Vetch, common, *Vicia sativa* L. spp. *sativa*; Vetch, crown, *Securigera varia* (L.) Lassen; Vetch, hairy, *Vicia villosa* Roth ssp. *villosa*; Vetch, Hungarian, *Vicia pannonica* Crantz; Vetch, kidney, *Anthyllis vulneraria* L.; Vetch, milk, *Astragalus cicer* L.; Vetch, monantha, *Vicia articulata* Hornem.; Vetch, narrowleaf, *Vicia sativa* ssp. *nigra* (L.) Ehrh.; Vetch, purple, *Vicia benghalensis* L.
- **Vetch, Chickling, hay and/or straw**, see Vetch, hay and/or straw, AL 3531
- Lathyrus sativus* L.
- **Vetch, Crown, hay and/or straw**, see Vetch, hay and/or straw, AL 3531
- Coronilla varia* L.
- **Vetch, Milk, hay and/or straw**, see Vetch, hay and/or straw, AL 3531
- Astragalus* spp.

Subgroup 050C Processed products of legume feeds (such as meal, hulls)

<u>Code No.</u>	<u>Commodity</u>
AL 3302	Subgroup of Processed products of legume feeds (like meal, hulls) (includes all commodities in this subgroup)
AL 3532	Alfalfa, cubes <i>Medicago sativa</i> L., subsp. <i>sativa</i> L.
AL 3533	Alfalfa, meal <i>Medicago sativa</i> L., subsp. <i>sativa</i> L.
AL 3534	Leucaena, leaf meal <i>Leucaena leucocephala</i> (Lam.) de Wit, <i>Acaciella glauca</i> (L.) L. Rico
AL 3535	Lupin, meal <i>Lupinus</i> spp., varieties and cultivars
AL 3536	Pea, hulls <i>Pisum</i> spp.
AL 3537	Pea, meal <i>Pisum</i> spp.
AL 3538	Soya bean, hulls <i>Glycine max</i> (L.) Merr;
AL 3539	Soya bean, meal <i>Glycine max</i> (L.) Merr;

Group 051 CEREAL GRAINS (INCLUDING PSEUDOCEREALS) AND GRASS FEED PRODUCTS

Class C

Type 11 Primary feed commodities of plant origin

Group 051 Group Letter Code AS (forage, straws and hay)

The forage, hay and straw of cereal grains, grasses and processed products are derived from various plants of the grass family (Poaceae (alt. Gramineae)).

Cereal grains are grown to a limited extent as a forage crop. The immature crop is fed to livestock animals as succulent forage or as silage.

The cereal grain crops are mainly grown for human food or raw material for preparing food products. The “waste” parts remaining after harvest of the grain kernels (stems, stalks, leaves and empty ears) are extensively used and distributed for animal feeding purposes, in the form of hay or straw.

Several other species of the grass family are exclusively grown as forages crops. These crops are either used for grazing or are prepared for wholesale or retail distribution in the form of grass silage (in general one or more cuttings from immature plants), as artificially dried grass or as hay. The entire commodity may be consumed by livestock animals.

Portion of the commodity to which the MRL applies (and which is analysed): **Whole commodity, as presented for wholesale or retail distribution.**

In view of the range of moisture contents in the animal feeds of this Group, moving in commerce, the MRLs should preferably be set and expressed on a “dry-weight” basis.

A “dry-weight” basis implies that the commodity is analysed for pesticide residues as received, that the moisture content is determined, preferably by a standard method for use on the relevant commodity, and that the residue content is then calculated as if it were wholly contained in the dry matter. **See explanation in Group 050 Legume animal feeds**

The residues on the dry commodities of this Group, e.g. straws and hays, are expressed on the commodity as such.

Forage: Crops grown exclusively for animal feed. These crops are either used for grazing or are prepared as silage or as hay. Maize forage: whole green plant, prior to maturity (including the immature or nearly mature cobs).

Hay and Straw:

Coarse feed for livestock animals, especially cattle, horses and sheep, such as straw, hay, maize, stalks (stover) etc. e.g.

Maize hay: stover or whole stalks (with ears removed) remaining after the harvest of the mature and sun-dried cobs.

Silage: Finely chopped feed that is packed tight, and allowed to ferment in an air-tight environment until it reaches a pH of 4-5.

Group 051 Cereal grains and grasses (including pseudocereals) feed products

This Group is divided into 4 subgroups:

	Code
Subgroup 051A: Cereal grains (including pseudocereals) feed products with high water (≥20%) content (forage and silage)	AS
Subgroup 051B: Cereal grains (including pseudocereals) feed products with low water (<20%) content (hay, straw)	AS
Subgroup 051C: Cereal grains (including pseudocereals) processed products (such as bran, hulls)	AS
Subgroup 051D: Grasses for Animal Feed	AS

Group 051 CEREAL GRAINS (INCLUDING PSEUDOCEREALS) FEED PRODUCTS

Subgroup 051A, Cereal grains (including pseudocereals) feed products with high water (≥20%) content (forage and silage)

Code No.	Commodity
AS 3303	Subgroup of Cereal grains (including pseudocereals) feed products with high water (≥20%) content (forage and silage) (Includes all commodities in this subgroup) (see Group 020 Cereal grains (code GC 0080) for commodities included in cereal grains)
AS 0460	Amaranth, forage <i>Amaranthus</i> spp.; Amaranth, purple, <i>Amaranthus cruentus</i> L.; Princess-feather, Princess-feather, Amaranthaceae, <i>Amaranthus hypochondriacus</i> L.; Inca wheat, <i>Amaranthus caudatus</i> L.
AS 3540	Barley, forage <i>Hordeum vulgare</i> L. subsp. <i>Vulgare</i>
AS 3541	Barley, silage <i>Hordeum vulgare</i> L. subsp. <i>vulgare</i>
AS 3542	Buckwheat, forage <i>Fagopyrum esculentum</i> Moench
AS 3543	Canarygrass, annual, forage <i>Phalaris canariensis</i> L.
-	Corn, forage , see Maize forage, AS 0645
-	Corn, silage , See Maize silage, AS 3544 <i>Zea mays</i> L.
-	Field corn, forage , see Maize forage, AS 0645
-	Field corn, silage , See Maize silage, AS 3544 <i>Zea mays</i> L.
AS 0643	Hungry rice, forage <i>Digitaria iburua</i> Stapf; Fonio, white, <i>Digitaria exilis</i> (Kippist) Stapf
AS 0645	Maize, forage <i>Zea mays</i> L.
AS 3544	Maize, silage <i>Zea mays</i> L.
AS 3545	Millet, forage Millet, barnyard, <i>Echinochloa frumentacea</i> Link; Millet, finger, <i>Eleusine coracana</i> (L.) Gaertn.; Millet, foxtail, <i>Setaria italica</i> (L.) P. Beauv. subsp. <i>italica</i> ; Millet, little, <i>Panicum sumatrense</i> Roth; Millet, proso, <i>Panicum miliaceum</i> L. subsp. <i>miliaceum</i> ; Millet, pearl, <i>Pennisetum glaucum</i> (L.) R. Br.
AS 0647	Oat, forage (green) <i>Avena</i> spp.; Oat, common, <i>Avena sativa</i> L.; Oat, Abyssiniam, <i>Avena abyssinica</i> Hochst. ex A. Rich.; Oat, naked, <i>Avena nuda</i> L.; Oat, sand, <i>Avena strigosa</i> Schreb.
AS 3546	Oat, silage <i>Avena</i> spp.; Oat, common, <i>Avena sativa</i> L.; Oat, Abyssiniam, <i>Avena abyssinica</i> Hochst. ex A. Rich.; Oat, naked, <i>Avena nuda</i> L.; Oat, sand, <i>Avena strigosa</i> Schreb.

AS 3547	Rice, forage <i>Oryza sativa</i> L.; Rice, African, <i>Oryza glaberrima</i> Steud.; Wild rice, <i>Zizania palustris</i> L.; Wild rice, Eastern, <i>Zizania aquatica</i> L.
AS 3548	Rice, silage <i>Oryza sativa</i> L.; Rice, African, <i>Oryza glaberrima</i> Steud.; Wild rice, <i>Zizania palustris</i> L.; Wild rice, Eastern, <i>Zizania aquatica</i> L.
AS 0650	Rye, forage <i>Secale cereale</i> L.
AS 3549	Rye, silage <i>Secale cereale</i> L.
AS 0651	Sorghum, forage (green) <i>Sorghum bicolor</i> (L.) Moench; other <i>Sorghum</i> spp.
AS 3550	Sorghum, silage <i>Sorghum bicolor</i> (L.) Moench; other <i>Sorghum</i> spp.
AS 0447	Sweet corn, forage <i>Zea mays</i> L. subsp. <i>mays</i>
AS 0653	Triticale, forage x <i>Triticosecale</i> sp.
AS 3551	Triticale, silage x <i>Triticosecale</i> sp.
AS 3552	Wheat, forage <i>Triticum aestivum</i> L. subsp. <i>aestivum</i>
AS 3553	Wheat, silage <i>Triticum aestivum</i> L. subsp. <i>aestivum</i>

Subgroup 051B Cereal grains (including pseudocereals) feed products with low water (<20%) content (hay, straw)

<u>Code No.</u>	<u>Commodity</u>
AS 3304	Subgroup of Cereal grains (including pseudocereals) feed products with low water (<20%) content (hay and/or straw) (includes all commodities in this subgroup)
AS 0081	Straw and hay of cereal grains (see Group 020 Cereal grains (code GC 0081) for commodities included in cereal grains except pseudocereals)
AS 0080	Straw and hay of cereal grains (including pseudocereals) (see Group 020 Cereal grains (code GC 0080) for commodities included in cereal grains)
AS 3554	Amaranth, hay and/or straw <i>Amaranthus</i> spp.; Amaranth, purple, <i>Amaranthus cruentus</i> L.; Princess-feather, Princess-feather, Amaranthaceae, <i>Amaranthus hypochondriacus</i> L.; Inca wheat, <i>Amaranthus caudatus</i> L.
AS 0640	Barley, hay and/or straw <i>Hordeum vulgare</i> L. subsp. <i>vulgare</i>
AS 0641	Buckwheat, hay and/or straw <i>Fagopyrum esculentum</i> Moench; Buckwheat, Tartary, <i>Fagopyrum tataricum</i> (L.) Gaertn.
AS 3555	Canarygrass, annual, hay and/or straw <i>Phalaris canariensis</i> L.
-	Corn, hay and/or straw , see Maize hay and/or straw, AS 3557
-	Field corn, hay and/or straw , see Maize hay and/or straw, AS 3557
-	Field corn, stover , see Maize stover, AS 3558 <i>Zea mays</i> L.
AS 3556	Hungry rice, hay and/or straw <i>Digitaria iburua</i> Stapf; Fonio, white, <i>Digitaria exilis</i> (Kippist) Stapf
AS 3557	Maize, hay and/or straw <i>Zea mays</i> L.
AS 3558	Maize, stover <i>Zea mays</i> L.
AS 0646	Millet, hay and/or straw Millet, barnyard, <i>Echinochloa frumentacea</i> Link; Millet, finger, <i>Eleusine coracana</i> (L.) Gaertn.; Millet, foxtail, <i>Setaria italica</i> (L.) P. Beauv. subsp. <i>italica</i> ; Millet, little, <i>Panicum sumatrense</i> Roth; Millet, proso, <i>Panicum miliaceum</i> L. subsp. <i>miliaceum</i> ; Millet, pearl, <i>Pennisetum glaucum</i> (L.) R. Br.
AS 3559	Oat, hay and/or straw <i>Avena</i> spp.; Oat, common, <i>Avena sativa</i> L.; Oat, Abyssiniam, <i>Avena abyssinica</i> Hochst. ex A. Rich.; Oat, naked, <i>Avena nuda</i> L.; Oat, sand, <i>Avena strigosa</i> Schreb.
AS 0656	Pop corn, stover <i>Zea mays</i> L. subsp. <i>mays</i>
AS 0649	Rice, hay and/or straw <i>Oryza sativa</i> L.; Rice, African, <i>Oryza glaberrima</i> Steud.; Wild rice, <i>Zizania palustris</i> L.; Wild rice, Eastern, <i>Zizania aquatica</i> L.
AS 3560	Rye, hay and/or straw <i>Secale cereale</i> L.

AS 3561	Sorghum, stover <i>Sorghum bicolor</i> (L.) Moench; other <i>Sorghum</i> spp.
AS 3562	Sorghum, hay and/or straw <i>Sorghum bicolor</i> (L.) Moench; other <i>Sorghum</i> spp.
AS 3563	Sweet corn, stover <i>Zea mays</i> L. subsp. <i>mays</i>
AS 0652	Teff, hay and/or straw <i>Eragrostis tef</i> (Zuccagni) Trotter
AS 0657	Teosinte, hay and/or straw <i>Zea mays</i> ssp. <i>mexicana</i> (Schrad.) H. H. Iltis;
AS 0653	Triticale, hay and/or straw x <i>Triticosecale</i> sp.
AS 0654	Wheat, hay and/or straw <i>Triticum</i> spp.

Subgroup 051C Cereal grains (including pseudocereals) processed products (such as bran, hulls)

<u>Code No.</u>	<u>Commodity</u>
AS 3305	Subgroup of Cereal grains (including pseudocereals) processed products (such as bran, hulls) (Includes all commodities in this subgroup) (see Group 020 Cereal grains (code GC 0080) for commodities included in cereal grains)
AS 3564	Dried distiller's grain from Barley <i>Hordeum vulgare</i> L. subsp. <i>vulgare</i>
AS 3565	Dried distiller's grain from Maize <i>Zea mays</i> L.
AS 3566	Dried distiller's grain from Rye <i>Secale cereale</i> L.
AS 3567	Dried distiller's grain from Sorghum <i>Sorghum bicolor</i> (L.) Moench; other <i>Sorghum</i> spp.
AS 3568	Dried distiller's grain from Wheat <i>Triticum</i> spp.
AS 3569	Maize, bran <i>Zea mays</i> L.
AS 3570	Rice, hulls <i>Oryza sativa</i> L.; Rice, African, <i>Oryza glaberrima</i> Steud.; Wild rice, <i>Zizania palustris</i> L.; Wild rice, Eastern, <i>Zizania aquatica</i> L.
AS 3571	Timothy, cubes <i>Phleum</i> spp.

Subgroup 051D, Grasses for animal feed

<u>Code No.</u>	<u>Commodity</u>
AS 3306	Subgroup of Forage, hay and/or straw and silage from grasses used for animal feed (Includes all commodities (grasses in the Poaceae (Gramineae) family in this subgroup, except for commodities in Group 020, Code GC 0080)
AS 0162	Hay and/or straw of grasses for animal feed , includes all hay of species of grasses in the Poaceae (alt.Gramineae) family in this subgroup (except for commodities in Group 020, Code GC 0080)
AS 0163	Forage of grasses, includes all forage of species of grasses for animal feed in the Poaceae (alt.Gramineae) family in this subgroup (except for commodities in Group 020, Code GC 0080)
AS 0164	Silage of grasses, include all silage of species of grasses for animal feed in the Poaceae (alt.Gramineae) family in this subgroup (except for commodities in Group 020, Code GC 0080)

Specific grass codes include:

AS 5241	Bermuda grass, hay and/or straw <i>Cynodon dactylon</i> (L.) Pers.
AS 5243	Bluegrass, hay and/or straw <i>Poa</i> spp.
AS 5245	Brome grass, hay and/or straw <i>Bromus</i> spp.
AS 5251	Darnel, hay and/or straw <i>Lolium</i> spp.
AS 5253	Fescue, hay and/or straw <i>Festuca</i> spp.

Group 052 MISCELLANEOUS FEED PRODUCTS

Class C

Type 11 Primary feed commodities of Plant origin**Group 052 Group Letter Codes AM (hay and processed products) AV (forage)**

Group 052. Miscellaneous forage, hay crops and processed products, are derived from various kinds of plants except leguminous and grassy plants (family *Gramineae*). However, for convenience, the hay and forage of grasses for sugar production are included in this Group. Some of the crops listed in this Group are primarily grown for human food or as raw material for preparing food (e.g. sugar beet) and the “waste” material of such crops is used as animal feed.

The entire commodity may be consumed by livestock animals, either in a succulent form, as silage or in the form of hay.

Portion of the commodity to which the MRL applies (and which is analysed): **Whole commodity as presented for wholesale or retail distribution. In view of the wide range of moisture contents in the animal feeds of this Group moving in commerce the MRLs should, if relevant, preferably be set and expressed on a “dry-weight” basis, see explanation in Group 050 Legume animal feeds.**

Group 052 MISCELLANEOUS FEED PRODUCTS

AM 0165 **Group of miscellaneous feed products except leguminous and grass plants (*Poaceae*), but including grasses for sugar production (Includes all commodities in this group)**

This Group is divided into 3 subgroups:

	Code
Subgroup 052A: Miscellaneous feed products with high water ($\geq 20\%$) content (forage, beet tops)	AM
Subgroup 052B: Miscellaneous feed products with low water ($< 20\%$) content (hay)	AM
Subgroup 052C: Miscellaneous processed feed products (such as meal, hulls, dried pulp)	AM

Subgroup 052A: Miscellaneous feed products with high water ($\geq 20\%$) content (forage, beet tops)

<u>Code No.</u>	<u>Commodity</u>
AM 3307	Subgroup of Miscellaneous Feed Products with high water ($\geq 20\%$) content (forage, beet tops) (Includes all commodities in this subgroup)
AM 3572	Arrowleaf balsamroot, forage <i>Balsamorhiza sagittata</i> (Pursh) Nutt.
-	Beet, leaves or tops, forage, see Chard, VL 0464 (the same MRL applies as the food commodity) <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>
-	Carrot, culls, see Carrot, VR 0577 (the same MRL applies as the food commodity) <i>Daucus carota</i> L.
AM 1050	Cow cabbage, leaves <i>Brassica oleracea</i> L. var. <i>viridis</i> L.
AM 3573	Fodder beet, leaves or tops <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>
AM 1051	Fodder beet, roots <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>
-	Kale, forage, see Kale, VL 0480 (the same MRL applies as the food commodity) <i>Brassica oleracea</i> L. var. <i>viridis</i> L.

AM 3574	Kenaf, forage <i>Hibiscus cannabinus</i> L.
AM 1052	Marrow-stem cabbage or Marrow-stem kale, leaves and stems <i>Brassica oleracea</i> L. var. <i>medullosa</i> Thell.
-	Mangel or Mangold , see Fodder beet, roots, AM 1051
-	Mangoldwurzel , see Fodder beet, roots AM 1051
AM 0353	Pineapple, forage <i>Ananas comosus</i> (L.) Merr.
-	Potato, culls , see Potato, VR 0589 (the same MRL applies as the food commodity) <i>Solanum tuberosum</i> L.
AM 0495	Rape seed, forage <i>Brassica napus</i> L.
AM 3575	Spiny hopsage, forage <i>Grayia spinosa</i> (Hook.) Moq.
AM 0596	Sugar beet, leaves or tops <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>
AM 0659	Sugar cane, forage or tops <i>Saccharum officinarum</i> L.
AM 0497	Swedish turnip or Swede, leaves or tops; <i>Brassica napus</i> L. subsp. <i>rapifera</i> Metzg.
-	Swedish turnip or Swede, roots see VR 0497 Swede (the same MRL applies as the food commodity) <i>Brassica napus</i> L. subsp. <i>rapifera</i> Metzg.
AM 3576	Sweet potato, silage <i>Ipomoea batatas</i> (L.) Lam. var. <i>Batatus</i>
AM 3577	Sweet potato, vines <i>Ipomoea batatas</i> (L.) Lam. var. <i>Batatus</i>
AM 3578	Taper-tip hawk's-beard, forage <i>Crepis acuminata</i> Nutt.
AM 3579	Threadleaf sedge, forage <i>Carex filifolia</i> Nutt.
AM 0506	Turnip, forage <i>Brassica rapa</i> L. subsp. <i>rapa</i>
-	Turnip, leaves or tops , see Turnip greens, VL 0506 (the same MRL applies as the food commodity) <i>Brassica rapa</i> L. subsp. <i>rapa</i>

Subgroup 052B: Miscellaneous feed products with low water (<20%) content (hay, straw)

AM 3308	Subgroup of Miscellaneous Feed Products with low water (<20%) content (hay and/or straw) (includes all commodities in this subgroup)
AM 3580	Arrowleaf balsamroot, hay and/or straw <i>Balsamorhiza sagittata</i> (Pursh) Nutt.
AM 0691	Cotton hay and/or straw <i>Gossypium</i> spp.
AM 3581	Fodder beet, hay and/or straw <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>
AM 3582	Kenaf, hay and/or straw <i>Hibiscus cannabinus</i> L.
AM 0738	Mint, hay and/or straw <i>Mentha</i> spp.
AM 3583	Rape seed, hay and/or straw <i>Brassica napus</i> L.
AM 3584	Sugar cane, hay and/or straw <i>Saccharum officinarum</i> L.
AM 3585	Turnip, hay and/or straw <i>Brassica rapa</i> L. subsp. <i>rapa</i>

Subgroup 052C: Miscellaneous Processed feed products (such as meal, hulls, dried pulp)

AM 3309 **Subgroup of Miscellaneous Processed feed products (such as meal, hulls, dried pulps)**
 (includes all commodities in this subgroup)

AM 0660 **Almond, hulls**

Prunus dulcis (Mill.) D.A. Webb

- **Canola, meal**, see AM 3598 Rape seed, meal

Brassica spp.

AM 3586 **Cassava, dry chips**

Manihot esculenta Crantz

AM 3587 **Cotton gin trash**

Gossypium spp.

- **Cotton gin**, see AM 3586 Cotton gin trash

Gossypium spp.

AM 3588 **Cotton seed, hulls**

Gossypium spp.

AM 3589 **Cotton seed, meal**

Gossypium spp.

AM 3590 **Cucurbita seed, meal**

Cucurbitaceae

AM 3141 **Gold of pleasure seed, meal**

Camelina sativa (L.) Crantz

AM 3154 **Hemp seed, meal**

Cannabis sativa L.

AM 0693 **Linseed, meal**

Linum usitatissimum L.

- Mustard oil, meal, see Rape seed, meal AM 3598

Brassica spp.

AM 0696 **Palm kernel, meal**

Elaeis guineensis Jacq.

AM 0697 **Peanut meal**

Arachis hypogaea L.

AM 3591 **Pineapple, process residue**

Ananas comosus (L.) Merr.

- **Pineapple, process waste**, see AM 3590 Pineapple, process residue

Ananas comosus (L.) Merr.

AM 0698 **Poppy seed, meal**

Papaver somniferum L.

AM 3592 **Potato, process residue, dehydrated**

Solanum tuberosum L. ssp. *Tuberosum*

AM 3593	Potato, process residue, heat-treated,wet <i>Solanum tuberosum</i> L. ssp. <i>tuberosum</i>
AM 3594	Potato, process residue, raw <i>Solanum tuberosum</i> L. ssp. <i>tuberosum</i>
AM 3595	Potato, process residue, wet <i>Solanum tuberosum</i> L. ssp. <i>tuberosum</i>
-	Potato, process waste , see Potato, process residue
AM 3596	Potato, waste meal, dried <i>Solanum tuberosum</i> L. ssp. <i>tuberosum</i>
AM 3597	Rape seed, hulls <i>Brassica</i> spp.
AM 3598	Rape seed, meal <i>Brassica</i> spp.
AM 0699	Safflower seed, meal <i>Carthamus tinctorius</i> L.
AM 0700	Sesame seed, meal <i>Sesamum indicum</i> L.
AM 3599	Sugar beet, pulp, dry <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>
AM 1201	Sugar beet, pulp, wet <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>
AM 3600	Sugar cane bagasse <i>Saccharum officinarum</i> L.
AM 0702	Sunflower seed, meal <i>Helianthus annuus</i> L.
AM 3601	Sweet corn cannery waste <i>Zea mays</i> L., several cultivars, not including popcorn
AM 3602	Sweet potato, hulls <i>Ipomoea batatas</i> (L.) Lam. var. <i>batatus</i>
AM 3603	Vegetable, process residue, wet