



Feed Classification System

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Feed Classification System

BAR DIAMOND™ Feed Classification System

The Bar Diamond Feed Classification system utilizes components of the International Feed Numbering (IFN) system as well as additional classification by major proximal analysis amounts.

Feeds are additionally grouped as roughage, concentrate and supplement.

Feeds are indexed as to Protein Type (e.g. Animal, Plant, etc.).

Feeds are indexed with codes compatible with LanguaL™ (the International Framework for Food Descriptions) used for describing human foods.



Feed Classification System

Class – Based on proximal analysis amounts

“Nitrogenous” -- feeds having crude protein ($N \times 6.25$) values ≥ 200 g per kg (dry basis).

“Fibrous” -- feeds having fiber values of NDF ≥ 350 or CF ≥ 180 or ADF > 211.2 g per kg (dry basis).

“Lipid” -- feeds having lipid levels ≥ 450 g per kg (dry basis).

“Mineralized” -- feeds having ash levels ≥ 500 g per kg (dry basis).

“Carbohydrate” -- feeds not classified as **“Nitrogenous”** or **“Fibrous”** or **“Lipid”** or **“Mineralized”**



Feed Classification System

IFN-Class – Modified International Feed Number Classification

"**Dry Roughage**" feeds with an assigned IFN beginning with 1 or "**Fibrous**" feeds with dry matter \geq 800 g per kg (as is basis).

"**Fresh Roughage**" feeds with an assigned IFN beginning with 2 or "**Fibrous**" feeds fed in native state or fed green chopped.

"**Silage**" feeds with an assigned IFN beginning with 3 or "**Fibrous**" feeds that are fermented.

"**Energy**" feeds with an assigned IFN beginning with 4 or "**Carbohydrate**" or "**Lipid**" feeds.

"**Protein**" feeds with an assigned IFN beginning with 5 or "**Nitrogenous**" feeds.

"**Mineral**" feeds with an assigned IFN beginning with 6 or "**Mineralized**" feeds.

"**Vitamin**" feeds with an assigned IFN beginning with 7 or materials that primarily supply vitamins.

"**Additive**" feeds with an assigned IFN beginning with 8 or materials that are additives.



Feed Classification System

Group – Based on general use

"**Roughage**" -- feeds that are "**Fibrous**"

"**Concentrate**" -- feeds that are "**Energy**" or "**Protein**" and not "**Fibrous**"

"**Supplement**" -- feeds that are "**Mineral**" or "**Vitamin**" or "**Additive**" or "**Mineralized**" or maybe "**Protein**"

Kind – Based on general source

"**Ingredient**" -- feeds that are single material and are not "**Product**" or "**Mixture**"

"**Product**" -- feeds that are commercial products

"**Mixture**" -- feeds that are mixtures of "**Ingredient**" and/or "**Product**" materials



Feed Classification System

Protein Type – Based on primary type of nitrogen supply

- “Animal”** -- animal protein
- “Milk”** -- milk protein
- “Plant”** -- plant protein
- “Microbial”** -- bacterial, yeast, fungi, etc. protein
- “NPN”** -- non protein nitrogen
- “Fecal”** -- recovered animal wastes
- “Mixed”** -- mixed proteins usually in **“Product”** or **“Mixtures”**