

## ASA Presentation Notes Lesson 5.3

Unit Name: [Unit 5 Animal Nutrition](#)

Lesson Topic: [Lesson 5.3 Feedstuffs](#)

Presentation on: [Feedstuffs](#)

Feedstuff.

- An ingredient or material fed to animals for the purpose of sustenance.
  - Provide one or more nutrients.
- Feedstuff vs. feed.
  - A feedstuff is not normally fed by itself, but is mixed with other feedstuffs to formulate a feed.

Feedstuff Categories.

- Roughages.
- Concentrates.
- Supplements.
- Feed Additives.

Roughage.

- Feedstuffs that are high in fiber and low in nutrient density.
- Bulky.
- Utilized primarily by ruminants and pseudo-ruminants.
- Common sources:
  - Hay.
  - Silage.
  - Pasture.

Concentrate.

- Feedstuffs that are low in fiber and high in nutrient density.
- Energy sources.
  - Cereal grains: corn, oats, barley.
- Protein sources.
  - Oil seed by-products: soybean meal.

Supplements.

- Supplements are commonly used to provide small amounts of nutrients that are deficient in a ration.
  - Vitamins.
  - Minerals.
  - Fats and oils.

Feed Additive.

- Feed additives are used to modify one or more properties of a feed. A feed additive does not add nutritional value.
- Additives:
  - Increase stability.
  - Enhance growth or performance.
  - Promote animal health.
  - Improve consumer acceptance.

#### Feedstuff Variability.

- The same feedstuff may have differing nutrient contents based on.
  - Time of harvest.
  - Growing conditions.
  - Soil conditions.
  - Water availability.
  - Geography.

#### Species Variability.

- The amount of nutrition derived from a feed varies from species to species due to digestive differences.

#### NRC Feed Tables.

- The National Research Council has published feed tables containing the nutritional value of common feeds.
- Use the feed tables as a guide.
- Feed analysis is still recommended due to variability in feeds.
- [http://books.nap.edu/catalog.php?record\\_id=1713](http://books.nap.edu/catalog.php?record_id=1713)

## ASA Reflection Page

List 5 key points that are important to remember from this presentation.

- 1.
- 2.
- 3.
- 4.
- 5.

List 3 ideas or concepts that this new information has in common with previous things learned.

- 1.
- 2.
- 3.

List questions or ideas that remain unclear about the information presented that should be asked for clarity at the appropriate time.