

# Introduction to Animal Science



# Competency 3.01

Recall Animal breed and sex terminology.

# Animal Terminology

Species	Uncastrated Male	Immature Castrated Male	Immature Female	Mature Female	Newborn
Cattle	Bull	Steer	Heifer	Cow	Calf
Swine	Boar	Barrow	Gilt	Sow	Piglet
Poultry	Rooster	Capon	Pullet	Hen	Chick
Turkey	Tom		Pullet	Hen	Poult
<b>Supplemental Animal Terminology</b>					
Sheep	Ram	Wether	Ewe Lamb	Ewe	Lamb
Goat	Buck	Wether	Doeling	Doe	Kid
Dog	Stud	Neutered	Bitch	Bitch	Puppy
Cat	Tomcat	Neutered	Molly	Queen	Kitten

# Animal Terminology

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	Tomcat	Neutered	Molly	Queen	Kitten

# Physical Characteristics

- Intact Males –
  - Generally more muscular overall
  - Typically larger in stature and grow faster than females
  - Often exhibit more muscle in the neck area

# Physical Characteristics

- Castrated Males
  - Slower growing and have less muscle overall than the intact males
  - Look for evidence of male genitalia such as a sheath to distinguish from females

# Physical Characteristics

- Mature Females
  - Large body structure than immature females
  - Mammary glands more evident when the animal is not lactating

# Physical Characteristics

- Immature Females
  - Smaller stature than mature females
  - Examine genitalia to distinguish from young male animals



# Breeds of Livestock

- Breeds are characterized by their phenotypic traits:
  - Color and/or color pattern
  - Frame and size
  - Degree of muscling
  - Environmental adaptations
    - Extra skin to improve heat tolerance

# Angus



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# Beef Breeds

- Angus
  - Black
  - Polled
  - Originated in Scotland
  - It is the most “registered” purebred
  - High in carcass quality

# Hereford



**provided by Dr. Robert Kropp**

# Beef Breeds

- Hereford
  - Red and White face
  - Horns
  - Originated in England
  - Docile
    - Gentle temperament
  - Good foragers
    - Efficient converters of forage crops

# Charolais



# Charolais

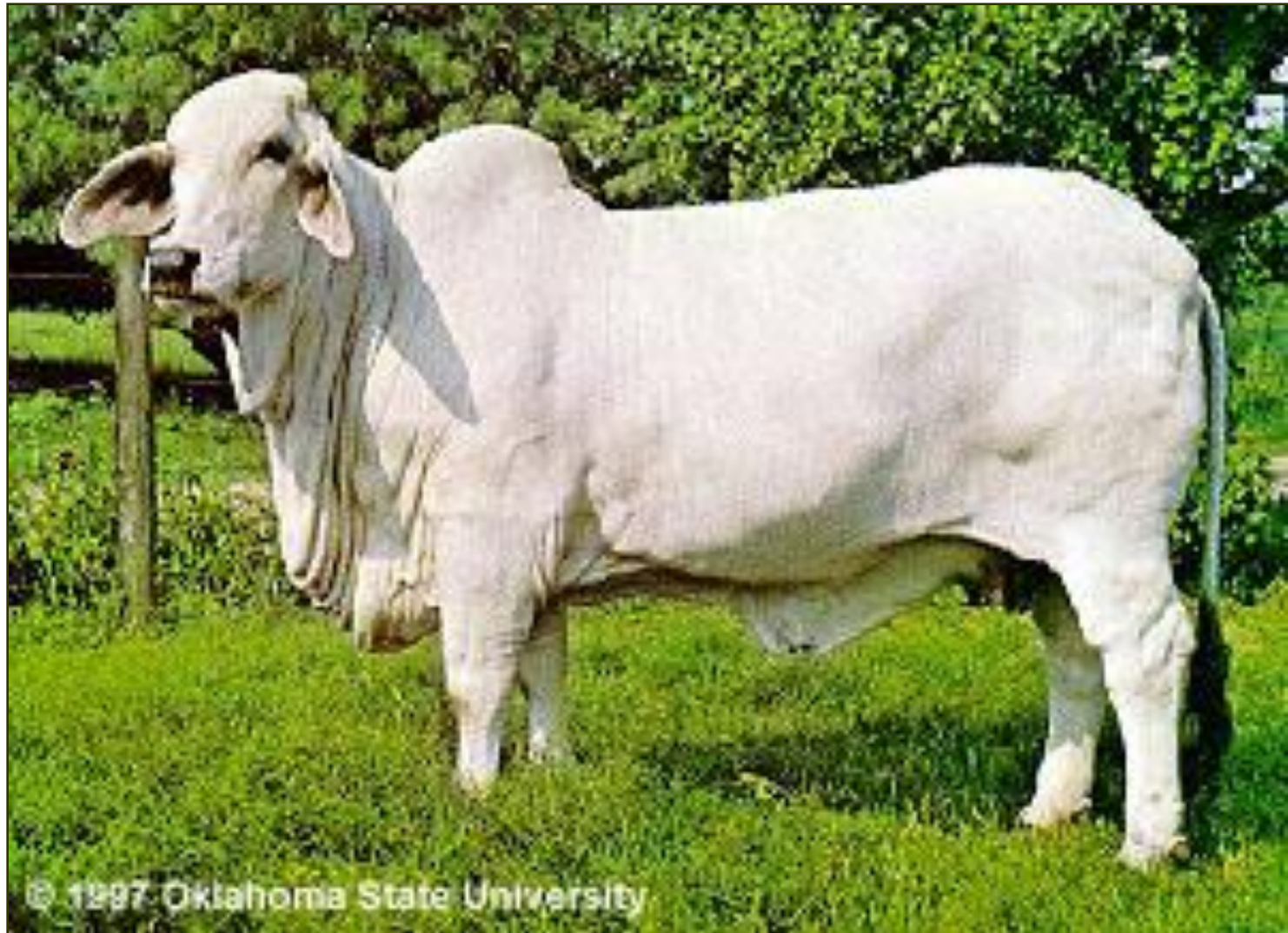


# Beef Breeds

- Charolais
  - White to light straw colored
  - Naturally Horned
    - Breeding-up has created polled animals
  - Large framed
  - Originated in France



# Brahman



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# Brahman



# Beef Breeds

- Brahman
  - Light Gray to Black or Red
  - Originated in India
  - Pronounced hump
  - Loose Dewlap
  - Insect tolerant
  - Disease tolerant

# Simmental



# Beef Breeds

- Simmental
  - Not set color pattern
  - Large frame
  - Rapid growing animal

# Shorthorn



**provided by the American Shorthorn Association**

# Polled Hereford



# Santa Gertrudis

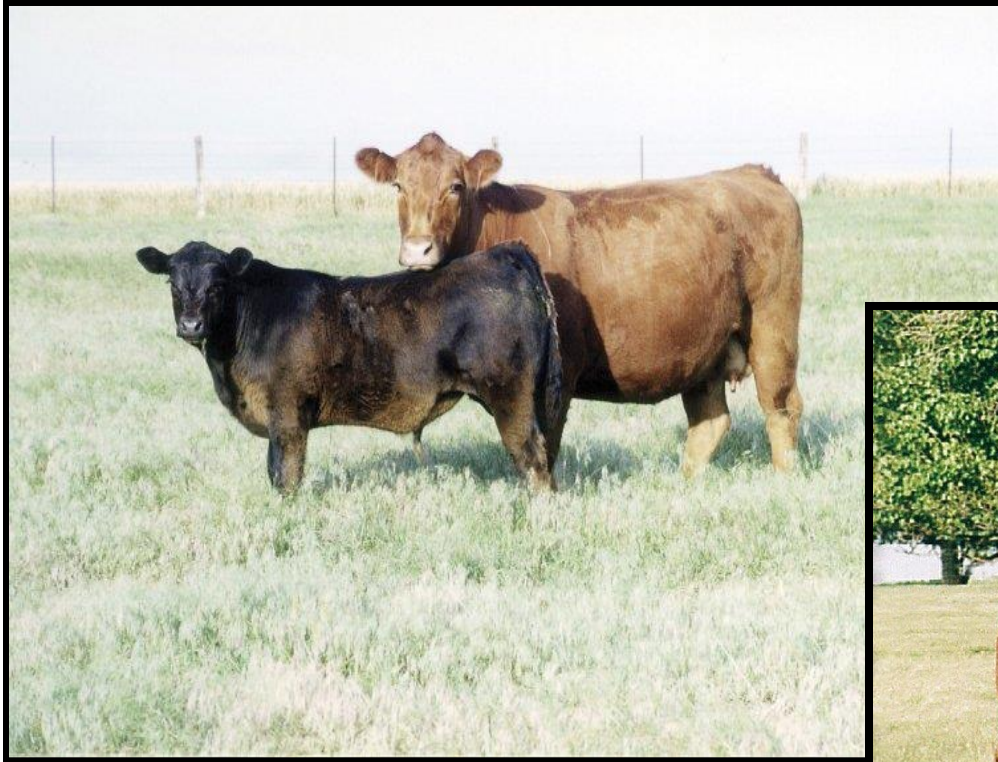




# Gelbvieh



# Limousin



# Texas Longhorn



# Dairy Breeds

# Holstein



provided by Hoard's Dairyman

# Dairy Breeds

- Holstein
  - 90% of the dairy cattle in the US
  - Black and white
  - Leading producer of milk
  - Produce about 18,000 lbs. Of milk per cow per year

# Jersey



provided by Hoard's Dairyman

# Dairy Breeds

- Jersey
  - Cream to light fawn color
  - Smallest framed dairy breed
  - High butterfat content in milk



# Guernsey



**provided by Hoard's Dairyman**

# Ayrshire



provided by Hoard's Dairyman

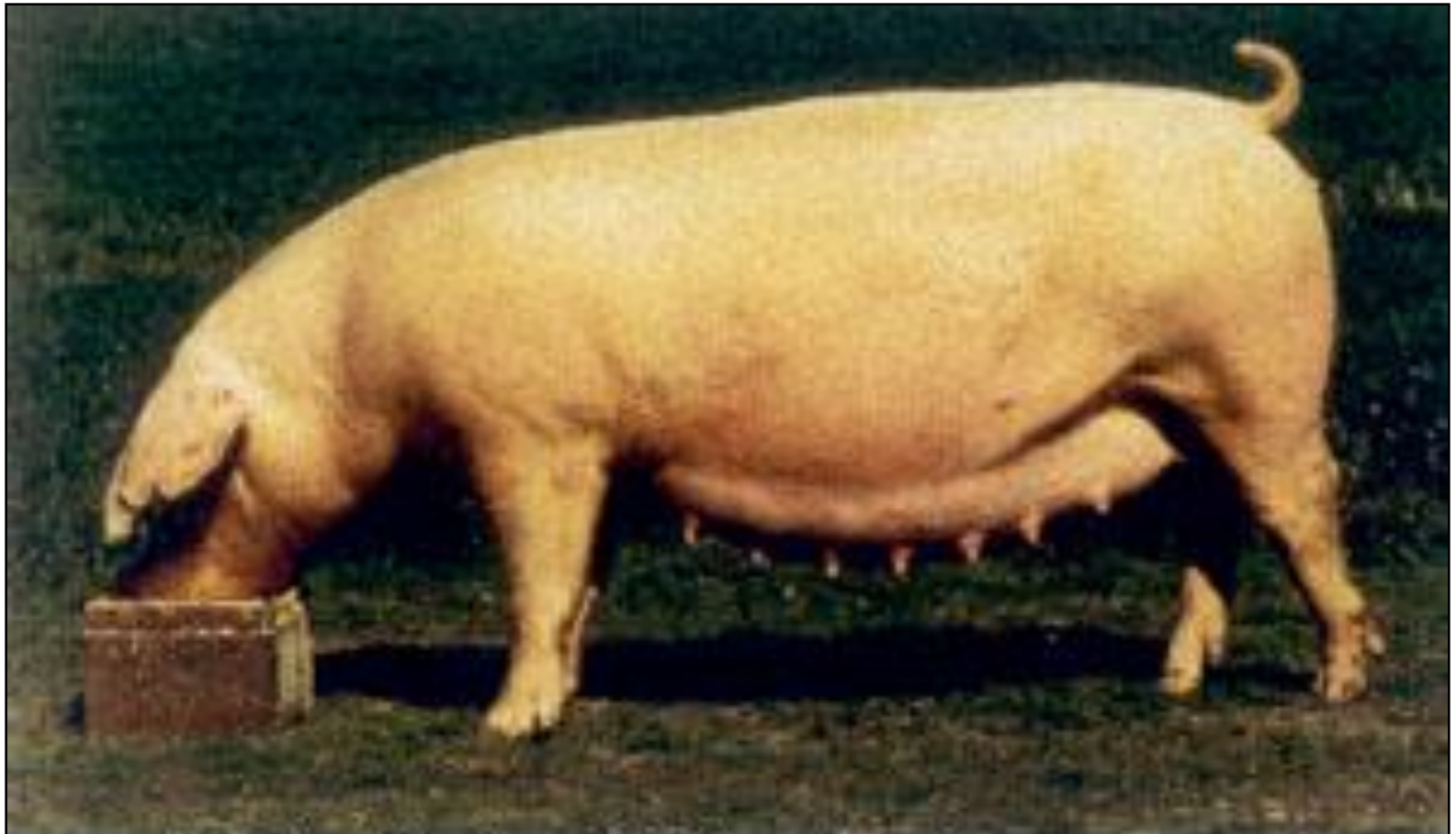
# Brown Swiss



**provided by Hoard's Dairyman**

# Identifying Breeds of Swine

# American Landrace

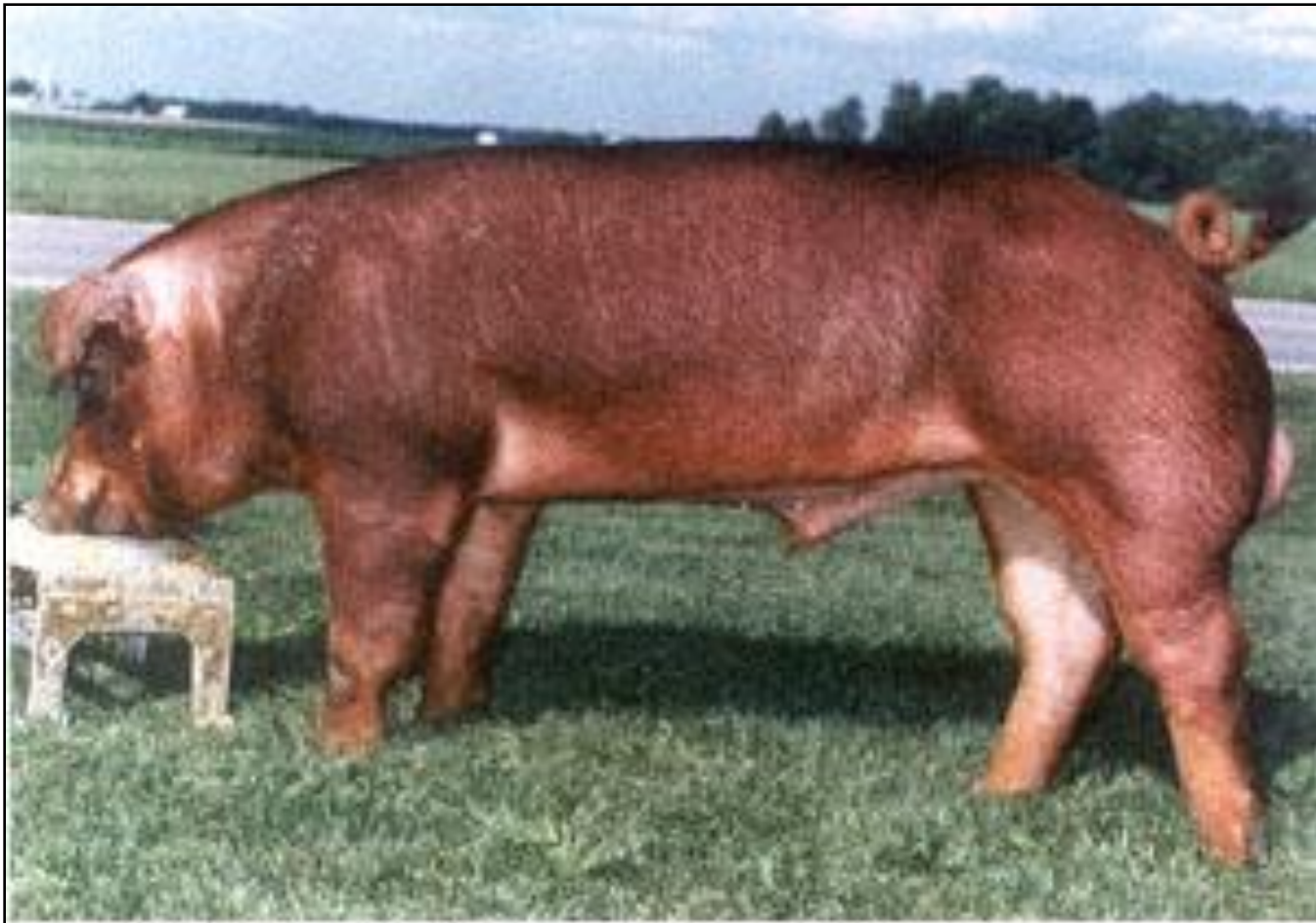


**provided by National Swine Registry**

# American Landrace

- White
- Long Body
- Big loped forward ears
- Large litters
- Good mothering ability
- Originated in Denmark

# Duroc



**provided by National Swine Registry**

# Duroc

- Red
- Drooped ears
- Good growth rate
- Excellent feed conversion



# Hampshire



provided by National Swine Registry

# Hampshire

- Black with a white belt
- Erect ears
- Good muscle
- Carcass leanness

# Yorkshire



**provided by National Swine Registry**

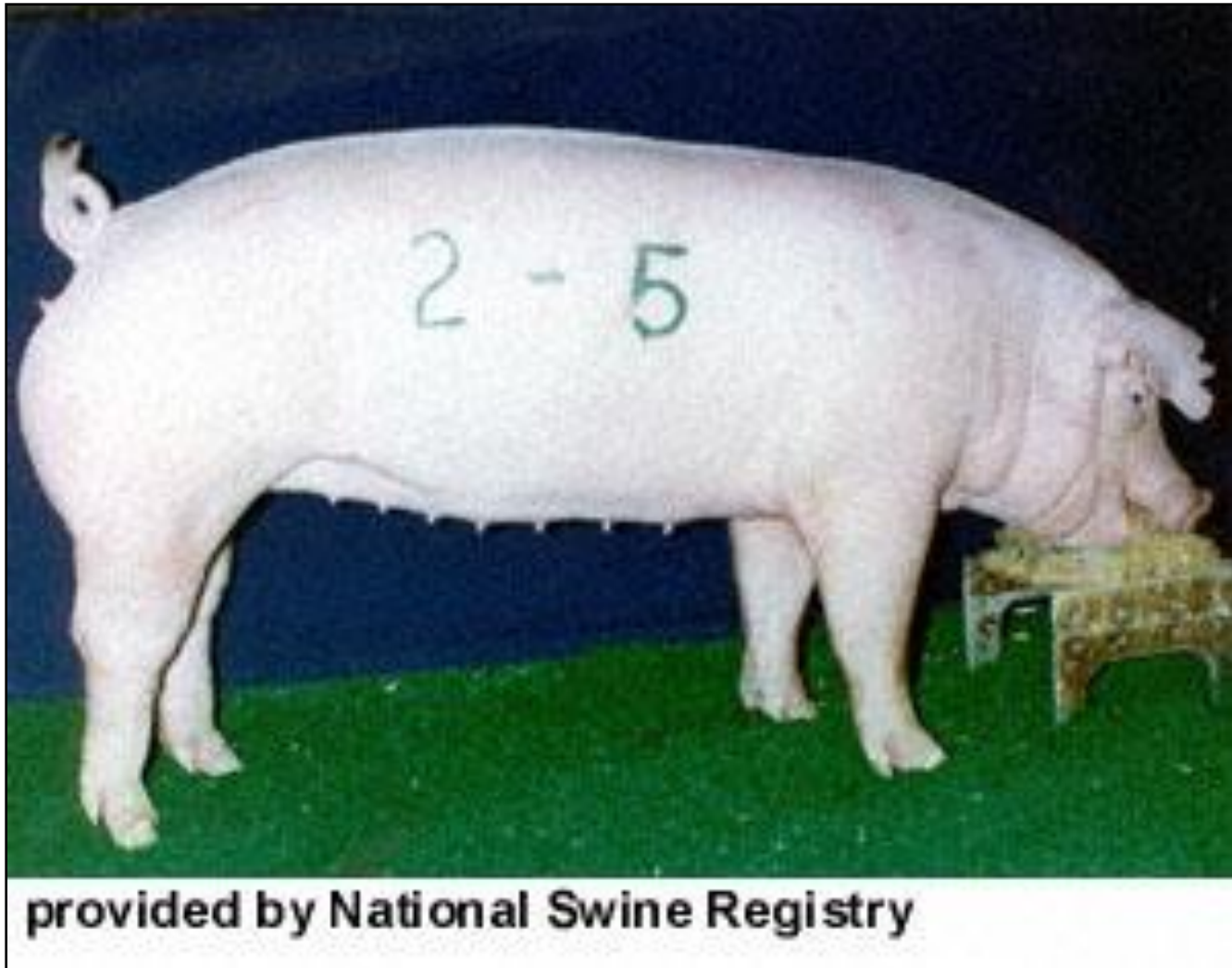
# Yorkshire

- White
- Erect ears
- Large litters
- Good feed efficiency
- Excellent growth and mothering ability
- Long carcass

# Poland China



# Chester White



provided by National Swine Registry

# Tamworth



Provided by Michael von Luttwitz

# Berkshire



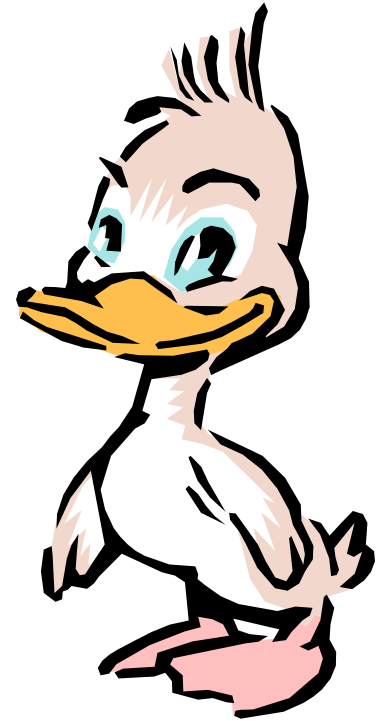


# Spotted Swine



provided by National Swine Registry

# Identifying Breeds of Poultry



# Poultry Identification

- No breed registries for poultry unlike other farm animals
- Most commercial producers develop their own “breeds” through crossbreeding different strains/breeds.

# Breeds, Varieties, Types & Classes

- **Breed**- group of related fowl that breed true for a specific trait
- **Type**- purpose for which it is bred (meat or egg type)
- **Classes**- geographic origin (Mediterranean, American, English and Asiatic)





# Egg Producers

**Layers-** chickens that produce eggs

- **White egg producers-** small in size
  - White Leghorns- white plumage
- **Brown egg producers-** larger birds that are not as economical as Leghorns
  - Rhode Island Reds- dark red plumage
  - New Hampshires- red plumage
  - Plymouth Rocks- white plumage



# White Leghorns



# Barred Rock



# Rhode Island Red





# Layer Cages







# Egg Producers

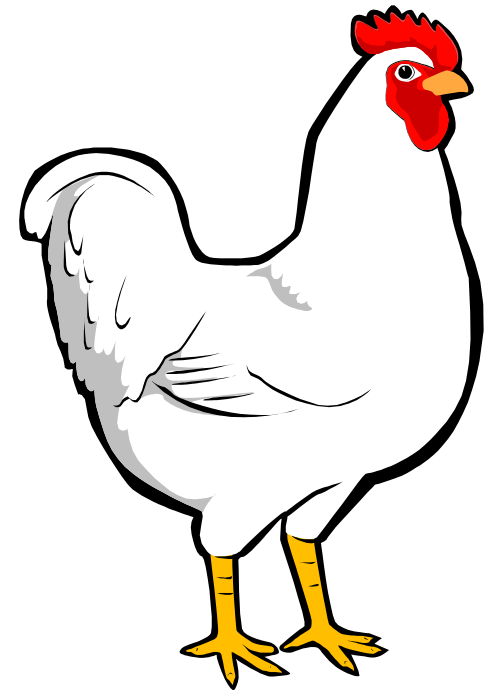
**Layers-** chickens that produce eggs

- Several other strains are growing in popularity and being raised by families for personal consumption. Ex: Dominique, Brahmas, etc.



# Meat Producers

- Chickens used for meat production are called Broilers
- Birds used for meat production are usually commercial crosses
  - Example: White Plymouth Rock females mated to Cornish males



# Confinement Broiler House



# Confinement Broiler House



# Turkeys



## **Broad Breasted White**

- White plumage
- Shanks, feet, and beak is white to pink
- White pinfeathers
  - Increases the value of the carcass
- Can survive better in hotter climates
- Good body confirmation but smaller than other breeds
- Very popular variety of turkey

# Broad Breasted White





# Turkeys

## **Broad Breasted Bronze**

- Black plumage
- Dark colored pinfeathers
- Largest of the turkey varieties
- Poor fertility and reproductive problems
  - Males are not good breeders



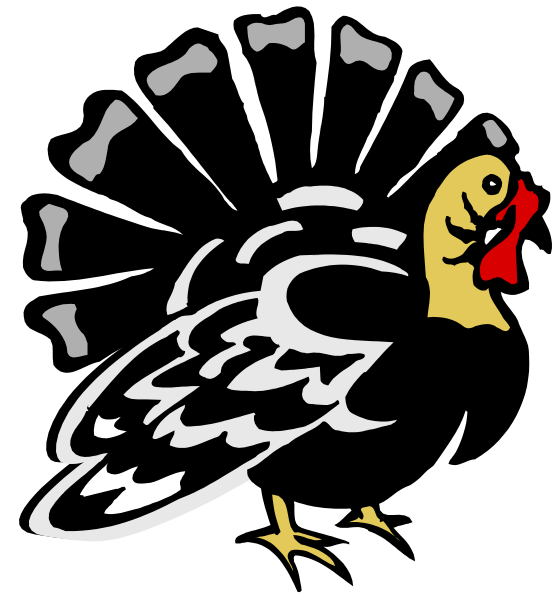
# Broad Breasted Bronze



# Turkeys

## **Beltsville Small Whites**

- Developed by the USDA
- Similar to the Broad Breasted Whites
- Averages about 10 lbs. less in mature body weight



# Beltsville Small Whites

