

The Poultry Industry

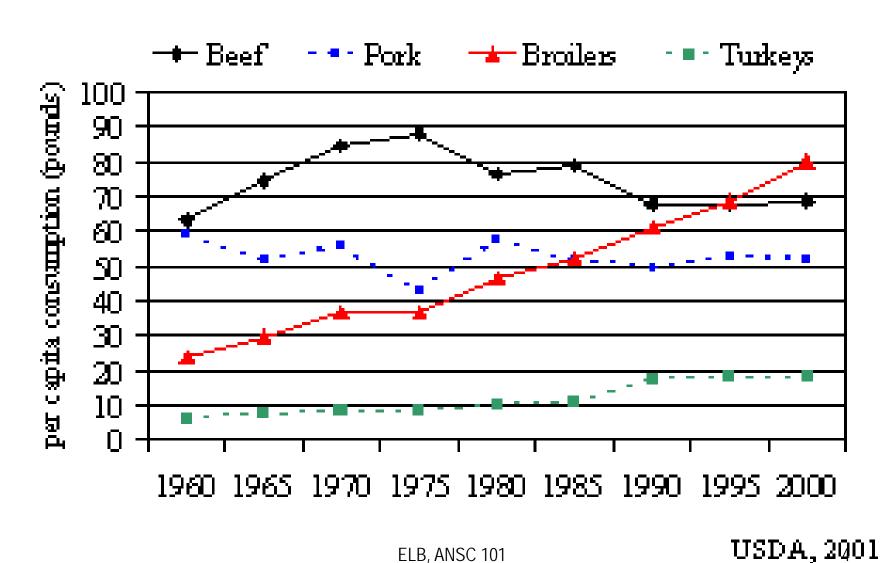
- Vertically integrated
- Egg producers (breeders)
- Broiler producers (breeders)
- Perdue Farms, MD
- Holly Farms
- Breeds of less importance



Chicken Tidbits

- Hatch time: ~21 days
- Precocious young
- Hens begin to lay ~18 weeks of age
- Broilers reach harvest weight 4-6 weeks*

US Per Capita Consumption



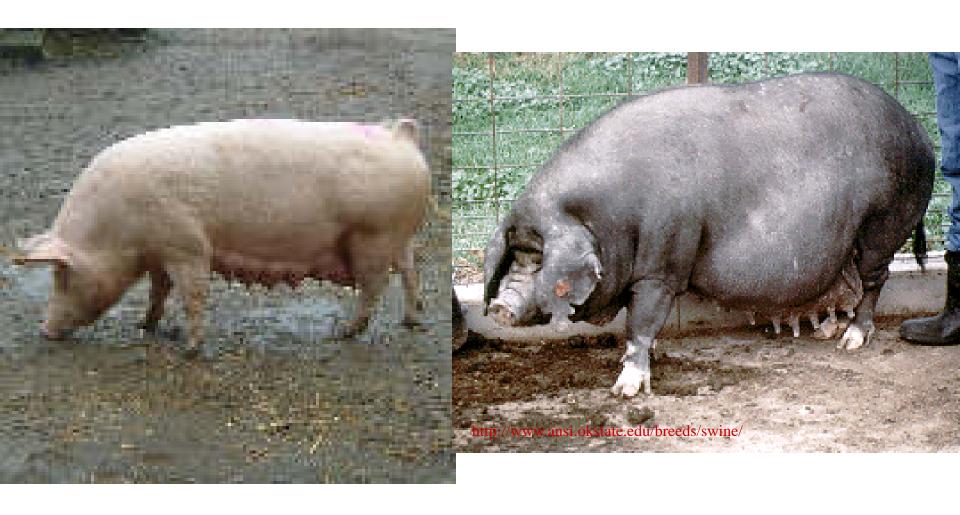
Industry Highlights of 20 years

- Check-off programs to promote products?
- Inexpensive meat: chicken
- Poultry production vertically integrated
- Competition to improve efficiency

Domesticating Swine

- Meat
- Emphasis on:
 - Growth rate
 - Litter size*
 - Carcass traits
- Genus & species: Sus scrofa
- Other uses?

Sus scrofa?



Phases of Pork Production

Farrow to finish

- "All inclusive"
- VERY grain dependent
- Commercial producers
- Seedstock (purebred) producers



"Genetics" Companies



http://www.pic.com/index.asp?orgid=581&storyTypeID=&sid=&langID=

- DeKalb
- Pig Improvement Corporation
- Land o' Lakes
- Swine Genetics International
- Patterning after poultry companies?

Phase II Pork Production

- Feeder pig producers
 - Intermediary step
 - Sell weaned pigs
 - 40-50 lbs.
 - Efficiency . . .



www.lakesidefeeders.com/ sew.htm

Phase III Pork Production



www.jrbfarms.com/ swineproduction.htm

Feeders (Finishers)

- Grain (concentrate) ration
- Rapid growth
- Harvest at 250-260 pounds+
- What is "finished?"

Swine tidbits

- Age at puberty: 6-8 months
- Age at weaning: 10D-3 weeks (SEW)
- Gestation length: 114 days
- Goal: breed gilts ~ 8 months of age*

Back to Grandin's Articles . . .

- Comfort in seeing other animals
- BUT . . . Are there other reasons to house animals w/common fence line?
- Pheromones and boars
- Promoting estrus

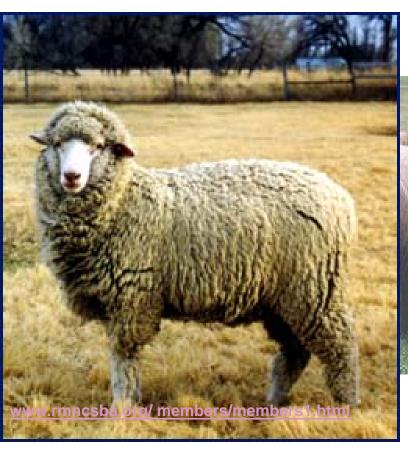
Pork Industry

- Various "phases"
- Horizontal integration
- More vertical integration—Carroll's Foods, Tyson Foods
- National Pork Board
- Pork check-off

Domesticating Sheep

- Meat
- Wool
- Emphasis on:
 - Growth rate
 - ?Fecundity?
 - Wool quality
- Genus & species: Ovis aries
- DUAL purpose

Primary Purposes





Enter a New Era . . .

Hair sheep



Katahdin

- "Hair sheep"
- SHED
- White or reddish
- Campus Farm
- WHY?



Provided by Katahdin Hair Sheep International

Dorper.

- Easy care breed
- Combo of hair & wool
- Skin value
- Breed "out of season"
- Campus Farm



Provided by Select Genes Ltd



Provided by Mr P J Cilliers

Phases of Sheep Production

- Farm Flocks
 - Secondary enterprise
 - Grain operations
 - 4-H projects
- Range Flocks
 - Grazing lands
 - Less handling*
 - Timed to lamb during less severe weather



http://www.mth.msu.edu/~maccluer/Farm/sheep.jpeg

Commercial vs. Purebred Flocks



http://www.homestead.com/mstecker/salisbury.html

Commercial flocks

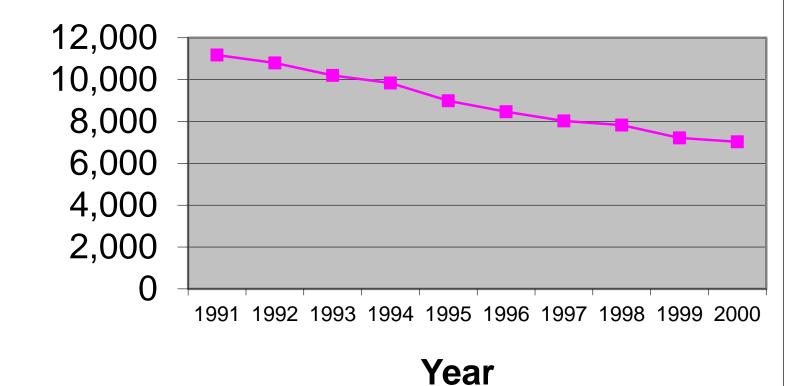
- Typically Xbred
- Castrate ram lambs
- NOT primarily marketing genetics

Purebred flocks

- Market genetics
- NO castration of ram lambs







NASS, Economic Research Service

Sheep Tidbits

- Age at puberty: 5-7 months
- Age at weaning: WIDE variation*
- Gestation length: ~147 days
- NICHE markets
 - Meat
 - Wool crafters (specialty fleeces)

Domesticating Horses

- Power
- Transportation
- Emphasis on:
 - Structure
 - Longevity
 - Strength/Speed
- Genus & species: Equus caballus

Purpose



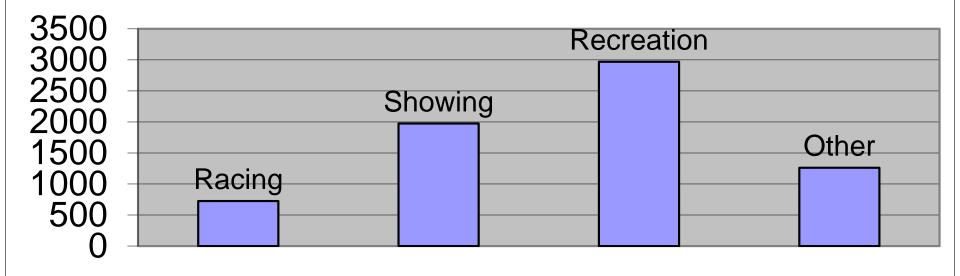


http://www.kbrhorse.net/whb/must28.html

http://www.cnn.com/2001/WORLD/asiapcf/auspac/11/02/aust.horse/

How Are US Horses Used?

Thousands of head



Activity

American Horse Council Study, 2002

Phases of Production



http://www.sheldakranch.com/photo.htm

- Breeding farms
- Specialty (discipline) farms
- Training facilities
- Boarding facilities
- Unique to other species

Horse Tidbits

- Age at puberty
 - Females: Light horse breeds 12-18 months** (36 mos.)
 - Females: Draft breeds 18-24 months
 - Males: 12-14 months** (60 mos.)
- Age at weaning: 4-6 months
- Gestation length: 340 days

So we've domesticated some species . . . Now what?

- Breed development
- Breed: "animals of common origin with characteristics that distinguish them from other groups within the same species." (Taylor & Field, 2004)
- HOW do we determine traits to "set" in a given breed?