

Swine

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General Industry and Terminology

- Define the following terms: boar, barrow, sow, gilt, nursery pig, feeder pig, market hog, crossbred, purebred, farrowing, ear notching, segregated early weaning (SEW)
- Differentiate between different types of swine production: farrow to finish, farrow to feeder, feeder to finish
- Label the following parts and regions of the body: snout, neck, jowl, shoulder, side, loin, rump, underline, flank, ham, hock

Health and Welfare

- Define the following terms: vaccine, booster, antibiotic, bacteria, virus, colostrum, parasite, withdrawal time, biosecurity
- Distinguish between different types of injections: subcutaneous, intramuscular, intravenous
- Be able to locate the proper injection sites on the animal
- Understand what gauge means as it relates to needle size and which gauges are appropriate for various age/size hogs
- Be able to identify normal vs. sick behaviors in swine
- Describe standard procedures and why they are done for a baby pig: iron injection, needle teeth clipping, tail docking, ear notching
- Understand the major parts of a medicine label

Nutrition and Feeding

- Define the following terms: monogastric, omnivore, feedstuff, concentrate, protein, energy
- Identify the following feedstuffs: whole shelled corn, cracked corn, ground corn, whole soybeans, soybean meal, white salt, trace-mineralized salt, limestone, dried molasses
- Understand the major parts of a feed tag

Reproduction

- Define the following terms: estrus, estrous cycle, gestation, parturition, litter
- Distinguish between male and female reproductive tracts



Genetic and Selection

- Identify and be able to explain the purpose for the following breeds: Yorkshire, Landrace, Chester White, Duroc, Hampshire, Berkshire
- Define the following terms: sire, dam, genetic selection, pedigree, expected progeny differences (EPD), selection indexes
- Understand and be able to use the following EPD: number born alive (NBA), number weaned (NW), litter weight (LWT), days to 250 (DAYS)

Carcass and Pork Products

- Differentiate between muscle, bone and fat on a pork carcass
- Identify and distinguish between the wholesale cuts of a pork carcass: ham/leg, loin, shoulder, side/belly, spareribs

Equipment and Record-Keeping

- Identify the following equipment used in swine production: ear notchers, ear tag pliers, RFID tag, paint stick, scalpel, multi-use syringe, disposable syringe, needle teeth clippers, hog board, snare
- Understand the importance of proper record-keeping and how it relates to all areas of production

Extra-Learning Opportunities.

Listed below are contests and other activities where youth have the opportunity to showcase what they have learned in the 4-H Swine Project.

- Youth for the Quality Care of Animals Certification
- Livestock Skillathon Contest
- Livestock Judging Contest
- Swine Show and Showmanship
- Attend 4-H Academic Conference in swine if in appropriate grade
- Tour other swine operations in your area and talk to the owner/manager to learn how they manage their swine herd

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