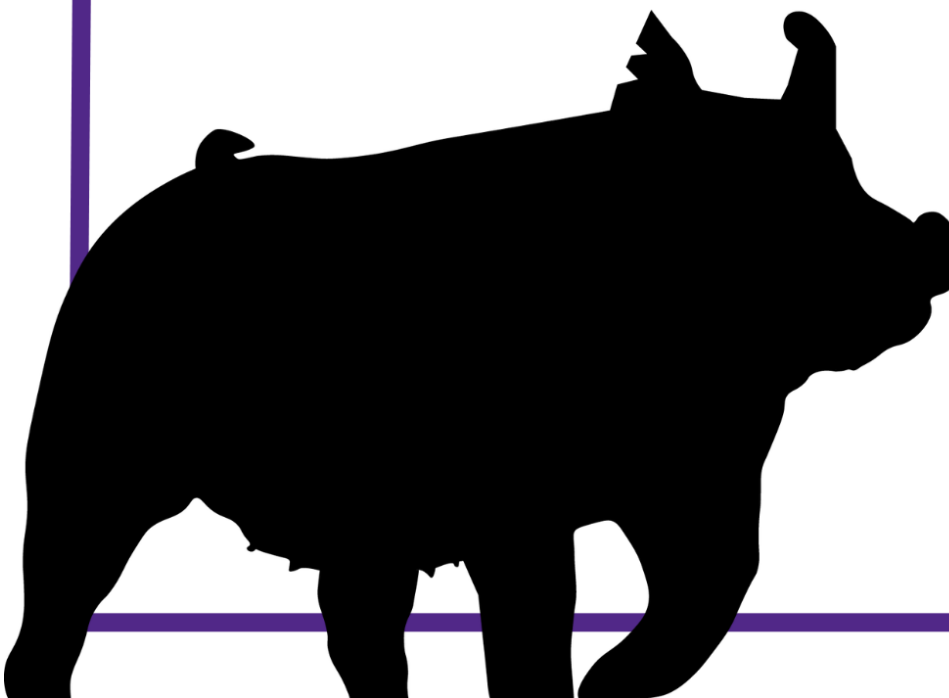


# K-STATE

## SHOW PIG GUIDE

Dr. Joel DeRouchey  
K-State Extension Specialist



In addition to this written document, several videos were created for the 2023 K-State Junior Swine Producer Day event. These are helpful resources to guide your youth swine project. The videos have been assembled into a playlist on the KSU Youth Livestock Program YouTube channel. The link is provided below. We also plan to update this list in the future as relevant videos are developed.

<https://bit.ly/23-ksu-juniorswineday>





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# Contributions

A special thanks to these people and organizations for helping us develop this great material.

Kansas Pork Association

National Swine Registry

Certified Pedigreed Swine

National Pork Board

Pork Checkoff

Lexie Hayes

Lois Schreiner



# Educational Materials

Listed below are educational resources available for use. Many of the websites have excellent information that can assist you with your youth swine project.

## **KSU Youth Livestock Program**

<http://www.YouthLivestock.KSU.edu>

Kansas State Youth Livestock Program Facebook page (@ksuylp)

## **KSU Swine Nutrition and Management**

<http://www.ksuswine.org>

## **KSU College of Agriculture**

<http://www.ag.ksu.edu>

<http://www.facebook.com/KStateAg?v=wall>

<http://twitter.com/kstateag>

## **The Kansas Pork Association**

<http://www.kspork.org/>

<http://www.facebook.com/pages/Kansas-Pork-Association/65989263077>

<http://www.youtube.com/user/KansasPork>

<http://piggingout-n-about.blogspot.com/>

## **US Pork Center of Excellence – Pig Information Gateway**

<http://ksu.porkgateway.com>

## **The National Pork Board**

<http://www.pork.org>

<http://www.facebook.com/ThePorkCheckoff>

<http://twitter.com/PorkCheckoff>

<http://www.youtube.com/user/PorkCheckoff>

## **Veterinary Feed Directive (VFD) Information**

<http://www.pork.org/production-topics/antibiotics-resource-center/>

<https://www.beefcattleinstitute.org/veterinary-feed-directive/>

## **The Pig Site**

<http://www.thepigsite.com>

## **The National Swine Registry for Hampshire, Duroc, Landrace, and Yorkshire**

<http://www.nationalswine.com>

## **Certified Pedigree Swine for Chester Whites, Spotted, and Poland China**

<http://www.cpsswine.com>

## **The National Berkshire Association**

<http://americanberkshire.com>

## **Breeds of Swine**

<http://www.ansi.okstate.edu/breeds/swine/>



# Selecting Your Youth Swine Project

*Dr. Joel DeRouchey, Kansas State University*

Before selecting your youth swine project, you should consider factors such as where you will be exhibiting your animal, gender, and breed classification. There are some shows that only allow barrows or only allow gilts. It is necessary to research this early and to know where you would like to exhibit your animal.

If you choose a specific breed, you must follow the purebred classification guidelines in order to be allowed to show in that particular breed. Also, be sure you understand any requirements for registration papers to show a purebred gilt or barrow at the various shows you plan to attend.

Selecting the correct age and size of pig is one of the most important factors in selecting your youth swine project. You do not want to purchase an animal that is too old and will be larger than needed at the show and/or too young that will not make the weight for the show. For county fairs in July, you will generally want End of December and early January born pigs as a general rule. For the August county fairs, January and early February born pigs are generally ideal. For the Kansas State Fair, January to middle of February and for the Kansas Junior Livestock Show end of January and February born pigs are a reasonable target age for market pigs. For the Kansas State Fair and Kansas Junior Livestock Show, purebred breeding gilts must be born after January 1.

Look for physical characteristics such as muscle top shape, ham expression, thickness of shoulders as well as base width in your animal. You will want a leaner animal that is free of excess fat and clean topped, not wasteful through the middle portion of the body and one that exhibits a clean neck/jowl.

Another characteristic to look for is structural correctness. Things to look for in structural correctness include: even size and shape of toes, angulation and backward slope through the knee of the front legs, the set of the hock in the hind legs, free of joint swelling, and looseness in the hip and shoulder, allowing them to walk without restraint.

Speaking with your local extension agent or swine project leaders are excellent good resources to guide you to sales or producers who might be the best fit to meet your personal project objectives. There are many places both in state and out of state to purchase pigs. You may visit prospect sales, breeder farms or raise your own.



# Project Selection Checklist

**Here is an easy checklist for selecting your youth swine project:**

- Where will you be exhibiting your project? \_\_\_\_\_
- Is there a gender specification for this show? \_\_\_\_\_
- What breed(s) are you going to exhibit? \_\_\_\_\_
- What age should your animal be for ideal weight at your show? \_\_\_\_\_

**Things to look for:**

- Physical Characteristics
  - Muscle top shape
  - Ham expression
  - Thickness of shoulders
  - Base width
- Leanness
  - Free of excess fat and cleaned topped
  - Clean neck/jowl
  - Not wasteful through the middle portion of the body
- Structural Correctness
  - Even size and shape of toes
  - Angulation and backward slope through the knee of the front legs
  - Set of the hock in the hind legs, hocks free of joint swelling
  - Looseness of the hip and shoulder, allowing them to walk without restraint

Information is available on the following pages that will help explain terms and descriptions in selection and judging of market and breeding swine. This will help you gain more knowledge for evaluating your youth project.



# Swine Terminology

## Breeding Swine Terminology

Breeding swine are generally placed on a combination of:

- Structural correctness
- Volume
- Scale – growth potential
- Correctness of condition
- Balance
- Muscle
- Reproductive characteristics

## Market Swine Terminology

Market swine are generally placed on a combination of:

- Muscle
- Leanness
- Structural correctness
- Balance
- Volume

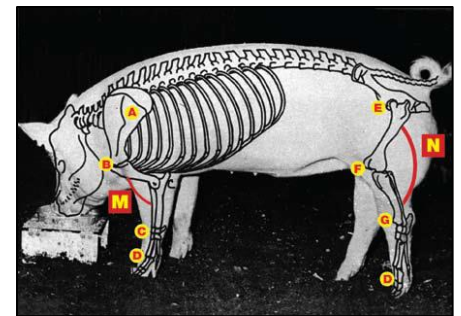
## Structure

### Desirable

Angulation/cushion of pastern  
 Sounder  
 More flex (give) through his/her hock or knee  
 Freer or easier moving  
 More desirable slope to his/her shoulder  
 Leveler rumped gilt that was more correct in her movement  
 Longer strided  
 Straighter tracking  
 Truer from knee to ground  
 Looser jointed  
 Heavy bone  
 More durable, heavier structured  
 More even toe size  
 Sets down a bigger foot  
 More conferment adaptable as she is ...

### Undesirable

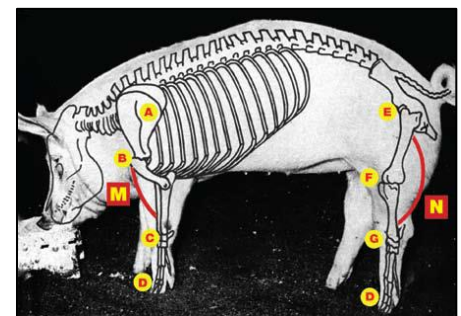
Stiff or steep in her pasterns  
 Least structurally correct  
 Stiff and peggy behind  
 Tighter moving  
 Straight shouldered  
 Steep rumped  
 Short strided  
 Cow hocked  
 Over in his knees  
 Tight jointed  
 Frail  
 Refined  
 Uneven toe size  
 Small footed



Desirable front and rear leg structure.



Normal (good) rear leg structure. Good leg set, good width between her legs. Narrow set to rear legs. Example of soft (weak) pastern. Straight front legs, "buck-kneed."



Undesirable front and rear leg structure.

\*All photos in Swine Terminology courtesy of Pork Checkoff, Iowa State University Extension and National Hog Farmer.





# Swine Terminology

## Growth - Production

### Desirable

Appears to be faster growing  
More youthful/fresher appearing  
Later maturing  
Larger (scaled, outline)  
More production oriented

### Undesirable

Slowest growing  
Stale appearance looking  
Earlier maturing  
Small scaled, short bodied  
Slow growing, pounds light

---

## Muscling

### Breeding Gilts

#### Desirable

More (correct, desirable) in her muscle (design, pattern)  
Longer and looser in her muscle design  
Heavier muscled  
Squarer and thicker rumped, hiped  
Longer & looser in her muscle design  
More muscular down her top  
More expressive down her top  
Meatier spread down her top  
Thicker (top, rump, ham)  
More correctly shaped down her top

#### Undesirable

Tight in her muscle design  
Tight wound  
Light muscled  
Narrow rumped

### Market Hogs

#### Desirable

More expressively muscled  
Square, more muscled top  
Wider rumped  
More shape to ham

#### Undesirable

Flat  
Narrow topped  
Narrow rumped  
Flat hammed

---

## Leanness

#### Desirable

Leaner/trimmer  
Cleaner elbow pocket  
Leaner shape of top  
Cleaner jowl  
Showed more blade action, movement

#### Undesirable

Heavier condition  
More condition in elbow pocket  
Round top  
Wasty jowl



# Swine Terminology

## Balance

### Desirable

Leveler design/leveler topped  
High tail setting  
Longer necked, longer fronted  
Longer sided

### Undesirable

Broken topped or high topped  
Steep rumped  
Short necked  
Short sided, coupled

## Volume/Stoutness

### Desirable

Higher volume/more capacious  
Fuller ribbed  
More spring of her rib  
Greater spring of rib  
Wider based  
Wider chested  
Wider (between/through) his blades  
More width of skeleton  
Bigger bladed, bolder bladed

### Undesirable

Least capacious  
Shallow ribbed/tight ribbed  
Flat rib  
Flat ribbed  
Narrow based  
Narrow chested  
Narrow and flat shouldered  
Narrow skeleton  
Tight shouldered

## Sex Characteristics

### Female

#### Desirable

Prominent underline  
More evenly spaced underline  
Finer, more desirable texture  
More correct teat (nipple) design  
Set further forward



A good underline.

#### Undesirable

Flat underline  
Uneven spacing  
Coarse underline  
Inverted nipple/pin/blunt  
Pin nipple



A poor underline.

### Male

#### Desirable

More testicular development  
Cleaner tighter sheath  
More rugged/muscular appearing  
More aggressive

#### Undesirable

Least testicular development  
Wasty sheath  
Frail, fine boned

## Carcass

### Desirable

Should rail a carcass requiring the least fat trim  
Should yield a carcass with a higher % muscle  
Should have a greater lean yield  
Should have a leaner, shapelier carcass  
Should have a higher % of primal cuts

### Undesirable

The lowest % muscle or lean  
The most fat trim



# Purebred Breeds

## Purebred

### Duroc

- Red pig with drooping ears
- Excellent terminal sire breed
  - Growth and feed efficiency
  - Carcass characteristics
  - Excellent meat quality
- Originated in New York/New Jersey area in early 1800's



#### *Classification (National Swine Registry):*

- Must be red in color and possess Duroc Breed Character (ears must be down and medium size).
- Must be ear notched within seven days of birth.
- Must NOT have any white hair located on the animal.
- Must NOT have any black hair.
- Must NOT have more than three black spots on the skin and none of these spots can be larger than two inches in diameter.
- Must NOT have any shading or indication of a belt.
- Must be stress negative.

---

### Hampshire

- Black pig with white belt and erect ears
- Originated in Hampshire, England
- Imported to U.S. in 1825
- Terminal sire breed
  - Excellent growth rate and efficiency
  - Excellent carcass characteristics



#### *Classification (National Swine Registry):*

- Must be black in color with a white belt starting on the front leg. The belt may partially or totally encircle the body.
- Must possess Hampshire breed character (ears must be erect and not rounded).
- Must be ear notched within seven days of birth.
- Must NOT have any white hair or indications of streaking on the forehead.
- Must NOT have any red hair.
- Must be stress negative.



# Purebred Breeds

## Yorkshire

- White pigs with erect ears
- Maternal line breed:
  - Highly prolific
  - High milk production
- Originated in York, England
  - Imported to U.S. in 1820's



*Photo courtesy of Mason Livestock.*

### *Classification (National Swine Registry):*

- Must be white in color and possess Yorkshire breed character (ears must be erect).
- Must be ear notched within seven days of birth.
- Must NOT have any colored hair other than white.
- Must NOT have colored skin pigmentation larger than one U.S. minted silver dollar.
- Must NOT have masking above the eyes larger than a silver dollar.
- Must be stress negative.

---

## Landrace

- White in color
- Ears droop and slant forward with its top edges nearly parallel to the bridge of a straight nose
- Noted for their ability to farrow and raise large litters
- Descended from the Danish Landrace that originated in 1895



### *Classification (National Swine Registry):*

- Must be white in color and possess Landrace breed character.
- Must be ear notched within seven days of birth.
- Must NOT have any colored hair other than white.
- Must have down ears.
- Occasional spot of black on the skin may appear on the body only.

---

## Berkshire

- Black with 6 white points, erect ears
- Originated in Berkshire Co. England and imported to the U.S. between 1820 and 1850
- Terminal Line Boar
  - Popularity has increased with interest in meat quality "Berkshire Gold"
  - Good pork quality but poor overall growth



### *Classification (National Swine Registry):*

- A black and white animal with erect ears exhibiting Berkshire character.
- Must have white on all four legs, face and tail (unless tail is docked). One of the white leg points may also be missing.
- Must be ear notched within seven days of birth.
- Must NOT have a solid white or a solid black face from the ears forward.
- Must NOT have a solid black nose (rim of nose).
- White is allowed on the ears, but NO solid white may appear on the ears.
- Occasional splash of white may appear on the body.



# Purebred Breeds

## Chester White

- White pigs with down ears
- Maternal line breed:
  - Highly prolific
  - Highly durable
  - High milk production
- Originated in Jefferson County, New York in 1884



### *Classification (Certified Pedigreed Swine):*

- Must possess Chester White breed characteristics.
- Must be ear notched within seven days of birth.
- Must be solid white in color, no color on the skin larger than a U.S. silver dollar, no colored hair.
- Any skin pigmentation other than white that exceeds five in number are disqualified.
- Ears must be down and medium size.
- Any signs of weighted ear tags or evidence of past existence of such ear tags are determined to be not permissible and are grounds for disqualification.

## Poland China

- Terminal line breed:
  - Muscle
  - Big framed
  - Long bodied
- Originated in Ohio in 1816



### *Classification (Certified Pedigreed Swine):*

- Must possess Poland China breed characteristics.
- Must be ear notched within seven days of birth.
- Must be black with six white points (face, feet and switch) with an occasional splash of white on body. A hog may not possess more than one (1) solid black leg and be determined as a Poland China. *Note\* (tail docking is permissible)*
- Must have down ears.
- Must not have evidence of a belt formation.
- Cannot have red or sandy hair and/or pigment.
- Hogs that have weighted ear tags or evidence of tampering of ears with possible ear tags are ineligible.

## Tamworth

- Originated in Ireland
- Good mothering ability
- One of the most athletic breeds

### *Classification (Tamworth Swine Association):*

- The general color shall be red.
- No more than 5% black or has more than twenty black spots of hair of a size larger than a dime or any one spot of black hair larger than four inches by four inches.
- No white appearing on the body, except the hooves, but including the feet.
- Ears should be pointed and upright





# Purebred and Crossbred Lines

## Spotted

- Terminal line breed:
  - Growth
  - Carcass quality
- Originated in Ohio in 1880's



### *Classification (Certified Pedigreed Swine):*

- Must be black and white.
- Must possess Spotted breed characteristics.
- Must be ear notched within seven days of birth.
- Ears cannot be erect.
- Any red tinted or brown spots are ineligible.
- No solid black head from ears forward.
- No distinct white belt pattern (hair or skin) encircling and extending down and onto each shoulder.
- Any signs of weighted ear tags or evidence of past existence of such tags are determined to be not permissible and are grounds for disqualification.

---

## Hereford

- Red with white face and points with down ears
- Terminal line breed:
  - Leanness
  - Feed efficiency
- Early 1900's stain of hogs resembling Hereford cattle was developed by R.U. Weber of LaPlata, MO; group of hog breeders in IA and NE developed a strain from Duroc and Poland China mating's.



### *Classification (Certified Pedigreed Swine)*

- Red body with white head, ears, and four white legs
- Underline may be red or white; breeder's preference
- Ears must be down
- Maximum and minimum white requirements to register breeding stock; must be at least 2/3 red.

---

## Pietrain

- Originated in Belgium, imported to U.S. in 1960's
- Terminal line boar
  - Noted for extreme carcass characteristics
  - Noted for high stress susceptibility
  - Recent interest in carcass leanness has increased the breeds role in various boar lines
- Not used for show pigs, are found in commercial terminal sire lines across the world.





# Crossbreeding

## Crossbred Swine



X



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X



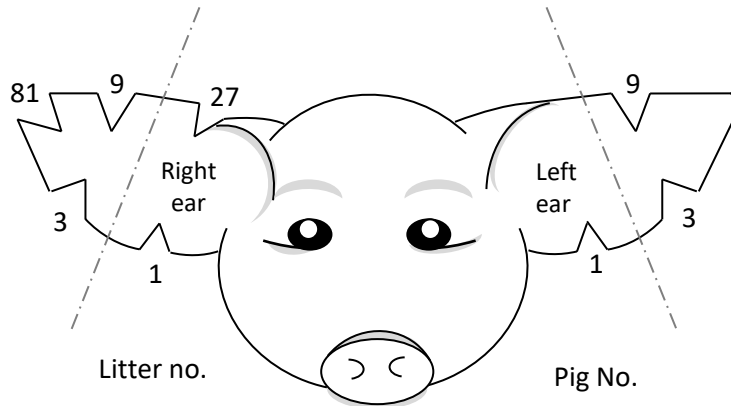
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# Universal Ear Notching System

Dr. Joel DeRouchey, Kansas State University



The Universal Ear Notching System is the standard way to permanently identify swine. This is generally completed during the first week after farrowing while the pigs are still small and easy to handle.

The pig's right ear is the litter ear and the pig's left ear is the individual pig number in the litter.

<p><b>Ear Notch 9 - 3</b></p>	<p><b>Ear Notch 9 - 3</b></p>
<p><b>Ear Notch 11 - 4</b></p>	<p><b>Ear Notch 11 - 4</b></p>
<p><b>Ear Notch 30 - 5</b></p>	<p><b>Ear Notch 30 - 5</b></p>





# General Care and Management

*Dr. Joel DeRouchey, Kansas State University*

## Facilities

- Warm, draft-free pen when pigs first arrive home.
- Check pen for sharp objects or corners that might scratch or injure your pig.
- Provide a large pen (generally at least 16 square feet per pig) so the pigs have room to move around freely. There should always be a dry area for the pig to lay to prevent them from chilling at night or causing other stress.
  - Even if your pigs have access to a wet area during hot days, they **MUST** have a dry place to sleep at night.
- Proper shade and ventilation
  - Clean, dry bedding in cool seasons.
  - In warm summer months, dampen sand or use wood shavings to provide the best environment for the pigs to stay cool.
  - Avoid using excess straw for pigs in summer.
    - This type of bedding simply holds in too much heat.
  - Use common sense when using facilities that are too enclosed or hot. Ask yourself would I like to stay in here during a hot, humid Kansas day?
  - **DO NOT** expose white hogs to direct sunlight for an extended time as they will sunburn!
  - Red and black marked hogs can be exposed to some sunlight to help darken their skin.
- **ALWAYS** provide access to fresh water and feed
  - Provide cool water – large tanks and hoses in the summer sun produce warm or hot water and they drink less or can refuse to drink.
  - Clean water tanks out weekly.
  - Your animal's performance will only be as good as the water that it drinks. This is easily one of the most overlooked areas when caring for your swine project.
  - Check the feeder daily to ensure that old or moldy feed is not preventing your pig from eating.

## Health Status

- Have a relationship with your veterinarian so you have a point of reference for help when needed.
- Check daily for sickness (coughing, rough hair coat, limping, will not stand, etc.).
- Administer proper medication when ill or lame.
- Be aware of all withdraw times (time from vaccination until marketing) when using vaccines and/or medicated feed.
- Treat for internal and external parasites/worms once a month. Rotate the type used.

## Weigh Each Pig—Mandatory

- Determine if you can purchase a scale or find a location you can go to weigh your pig throughout the summer.
- The most important information you can have is the weight and gain of your pig throughout the spring and summer.
- No two pigs are alike in their growth patterns.
- Always weigh pigs at the same time (i.e. before or after you feed when hand feeding).



# General Care and Management

*Dr. Joel DeRouchey, Kansas State University*

- Keep a notebook of the date and weight of each pig from year to year. This will help you with your yearly management if you have documented history of previous body weights at certain times of the year.
- If you do not have a scale and do not have access to one, you can use clothing tape to help you estimate the weight. With the procedures below, it should get you  $\pm 15$  lbs.
  - A confined pig is required to get an accurate measurement.
  - We suggest taking three separate heart girth measurements and using the average inches measured.
    - Measure the distance from the top of the shoulders down and around the chest of the pig just behind the front legs and back up to the starting point.
  - The pigs should be on continuous feed and water to ensure accuracy of results.

Inches of clothing tape	Estimated pig weight, lb
25	49
26	59
27	69
28	67
29	89
30	99
31	110
32	120
33	130
34	140
35	150
36	160
37	171
38	181
39	191
40	201
41	211
42	221
43	232
44	242
45	252
46	262
47	272
48	282

Groesbeck et al. 2003, KSU



# General Care and Management

*Dr. Joel DeRouchey, Kansas State University*

## Washing

- Pigs should be washed weekly to help remove old, dry skin and soften the hair.
  - Especially helps prevent/remove stains from white on colored pigs.
  - Any mild soap, such as dish soap, or a human shampoo will work very well. Also, numerous “show” type soaps sold that are very effective.
  - You can also apply a conditioner to soften and moisten the hair.
- Always brush your pig after washing until it is almost dry.
  - Brush the hair from the front to the rear of the pig at a downward angle.
- If pigs are on savings (not dirt) you can apply a thin coat of baby oil (or mineral oil) to the hair and skin once the pig is dry to soften skin and hair of dark colored hogs (not white areas of any pig).
  - Use a spray bottle to apply the oil; it only takes a small amount.
  - Only apply oil in the evenings. Pigs will get extremely warm during the day with a coat of oil that was applied in the morning.
  - Do not apply oils to white areas – this will cause them to lose their white brightness as dirt accumulates on skin when an oil layer is present.
  - Other “show” skin conditions are very effective as well.
- Keeping the pen clean of feces and dirt will help reduce the staining of white colored pigs.
- Overall goal is to improve the hair coat and freshness of the pig. Washing and brushing your pig is an effective way to calm and relax your pig before you go to the show.

## Exercise

- Exercise builds the respiratory system, so they do not get as tired and get warm when shown.
- Always drive pigs when exercising as you would in the show ring. This will get used to your commands. DO NOT do anything to the pig that you would not do in the show ring.
- The first few times will be challenging as the pigs do not know where to go or what you are expecting of them. Do not chase, yell or do anything to scare your pig when exercising.
- Exercise increases their metabolism rate; this is beneficial if the pig is getting too big.
- Generally, you can start routinely exercising your pig when it reaches 100 lbs.
- In the beginning, exercise two to four times per week for 10 to 15 minutes.
- Build up to 15-30 minutes the weeks leading up to your show. If you do this, you will be at an extreme advantage as your pig will handle great at the show.
- Exercising helps the pig loosen its joints and makes the pig “feel better.”
- Halt exercising your pig if it is sick, lame, or injured.
- Set up an obstacle course and practice driving your pig. Your pig will be familiar with your commands and this will help you be more competitive in showmanship.



# Notes



# Show Pig Nutrition

Dr. Joel DeRouchev, Kansas State University

## Starting your pig off right!

- Allow free access to feed and clean water at all times.
- Hand feeding your pig two times a day after arrival ensures that you know it is eating feed. In a self-feeder it is hard to know if they are eating much feed or not as it is not measured.
- Purchase the right feed to start your pig after you purchase, ask the breeder or other 4-H leader for advice if you need assistance. The first feed that you purchase is extremely important to the successful transition of your pig to your facility.
- Always verify that the first feed you purchase is fresh and made recently with your feed supplier. Some “first” feed purchased can actually be left over from the year prior, which is poor-quality feed to start your new pigs with.

## Understanding a feed Tag:

- A feed tag provides the needed information to understand the nutrient content of the feed. This is identical to food labels that are purchased for all human packaged food.
- All feed tags must have seven areas listed; they are noted in red below with an example of a swine feed tag.

### Show Pig Grower Deluxe

Complete diet for swine

#### Guaranteed Analysis

Crude Protein (min) .....	18.0%
Lysine (min) .....	1.1%
Crude Fat (min) .....	5.0%
Crude Fiber, max% .....	4.0%
Calcium (Min) 0.60 (Max).....	1.0%
Phosphorus (min) .....	0.6%
Salt (Min) 0.30 (Max).....	0.6%
Selenium (min) .....	0.3 ppm
Zinc (min) .....	110 ppm

#### List of Ingredients

Plant Protein Product, Grain Products, Roughage Products, Animal Fat, Calcium Carbonate, Monocalcium Phosphate, Salt, L-Lysine HCL, vitamin A supplement, vitamin D supplement, riboflavin supplement, biotin, thiamin mononitrate, pyridoxine HCl, vitamin E supplement, menadione sodium bisulfite complex (source of vitamin K), folic acid, ethoxyquin (a preservative), copper sulfate, manganous oxide, zinc sulfate, iron sulfate, cobalt carbonate, and sodium selenite.

#### Feeding Directions

To be fed to growing and finishing pigs weighing from 50 lb to market weight.

WARNING: Should not be fed to sheep or related species that have a low tolerance to copper. This product has been formulated specifically for swine and is not intended for other species.

Manufactured By:  
Willie Wildcat Feeds  
Manhattan, Kansas 66502

Net Weight 50 lb (22.68 kg)

1. Product name and purpose

2. Guaranteed nutrient analysis

3. Ingredient composition

4. Directions for use

5. Precautionary statement

6. Name and address of the manufacturer

7. Quantity



# Show Pig Nutrition

Dr. Joel DeRouchey, Kansas State University

## What type of feed do I purchase for my pig?

- There are many different “brands” of feed for your 4-H project. Often selecting one that is convenient to purchase, is made fresh and has someone helping give advice as needed is important to purchasing the right feed.
  
- ‘General’ guidelines for diet crude protein levels of complete feeds for show pigs:
  - 20% CP from 25 to 50 lb (1.3 – 1.4% Lysine)
  - 18% CP from 50 to 290 lb (1.0 to 1.1% Lysine)
  - 16% CP from 75 to 290 lb (0.8 – 0.9% Lysine)
  - 14% CP from 75 to 290 lb (0.7 – 0.8% Lysine)
  - 10% CP from 120 to 290 lb (0.45 to 0.6% Lysine)

## Examples of the feed crude protein level (CP%) to purchase:

- Pig needs regular weight gain with a pig that is ideal in muscle shape and leg structure.
  - Most likely 18% CP from 50 to 150 lb and then a 16% CP until show
  - May chose to increase diet CP% last 2-3 weeks to improve muscle shape
  
- Pig is designed well and structurally correct, but not enough muscle shape and thickness
  - Most likely 18% CP until 200 – 230 lb and change to a 20% or 22% for the last three weeks until show weight
  
- If a pig is very heavy muscled and/or tight structured, advice generally is feed a “lower protein diet”. This feeding program is meant to reduce the growth rate and muscle shape to make the pig look more ideal for the show ring.
  - At 50 lb - Start a 16% CP feed and determine if it is still too heavy muscled at 100 lb
  - At 100 lb - If too muscular but still needs to grow adequately (1.5 lb/day) change to a 14% CP diet
  - Above 120 lb and still too muscular and/or tight structured, change to a 10% CP diet
    - But growth will only be about 1 – 1.2 lb/day on full feed.

## How do I push the pig to gain more weight in a small amount of time?

- Feed the pig 4 to 6 small portions a day.
- Mixing feed in a gruel – or “wet feeding” can increase intake as well in some pigs.
- For the last 14 days prior to the show, you can feed a product called Paylean which will increase weight gain by 6-8 pounds compared to if it was never fed.
  - Paylean can also give your pig more muscle expression but overdoing it can cause a tighter or more restricted movement when it walks.
  - This supplement is sold by most show pig feed dealers.
- If your pig has a low appetite, adding liquid fat (any vegetable oil) or dry fat (sold by most show pig feed dealers) to the diet can help add needed weight as the pig is consuming a higher level of energy that can be used for weight gain.



# Show Pig Nutrition

Dr. Joel DeRouchey, Kansas State University

- **Consequences of this type of feeding program:**
  - Increased average daily gain
  - Maximum potential for muscle deposition will occur.
  - An increased amount of body fat will develop due to the pig simply putting on more weight in a shorter period of time.
- **When is the best time to push your pig for increased daily gain?**
  - As soon as you realize you are behind in weight; you should try to increase the gain of your pig. Realistically, pigs need to be over 125 lb before you really start to “push” them for extra weight gain to have an effect.

## How do I properly lower daily gains to prevent an excessively heavy pig?

- If you determine your pig is going to be too big for your show, allow them to stay on full feed until they reach 125-150 lb.
  - Now is the time to slow growth rate.
- You must lower the feed intake and hand feed each day.
  - You must feed enough to meet the maintenance requirements (see chart below).
- NEVER feed below the maintenance requirement of your pig! Remember, the values below are for a complete feed to gain weight.

### Maintenance requirements by body weight

Weight, lb	Complete feed required, lb
150	2.1
170	2.3
190	2.5
210	2.6
230	2.8
250	2.9
270	3.0
290	3.2

- **The amount of feed per day listed in the chart does not seem like very much feed at all, what can I do so the pig is not so hungry all the time?**
  - Remember, the amount in the chart is for no weight gain, increase that amount to grow the pig slowly, which is the recommended practice, not just holding the same weight.
  - You can feed a portion of the ration as a fibrous ingredient such as beet pulp, whole oats, wheat middlings or soybean hulls. This will add bulk and make the pig feel fuller after the meal but only add a small amount of energy.
    - Show feed suppliers offer various supplement products to help with holding or slowing weight gain for pigs as well.
  - But... fibrous ingredients themselves do not provide enough protein (amino acids) to meet the body needs... so you must use these in combination with the normal ration to meet the dietary needs. In addition, you may provide a top dress protein additive.
  - It is recommended that pigs are weighed a minimum of twice per week to determine progress of the holding period and then bring them back to normal feed amounts when needed.



# Show Pig Nutrition

Dr. Joel DeRouchev, Kansas State University

- ***Do I need to top dress with additional protein, vitamins or mineral sources when I am holding or slowing growth in my pig?***
  - Only if prolonged restricted feeding longer than 14 days decreases occurs. At this point your pig may start to make the pig look stale and begin to lose muscle shape.
    - However, show feed suppliers offer supplements that can be used during holding periods to ensure all the proper nutrients are still consumed by your pig.
  - Typically, the most economical protein source to top dress with is soybean meal. Other sources that can be used include show feed supplements or eggs.
    - Soybean meal is generally the least expensive and matches the pigs needs for daily protein very well.
  - In addition, restriction of feed intake will lower the amount of vitamins and minerals coming into the body. A maintenance diet will not cause deficiencies...but...we should supply additional vitamins and minerals to the pig to prevent body losses. Either show supplements or provide the pigs with complete human vitamin daily.
  - When you are done holding, gradually over three to four days increase the feed amount until they are back on full feed.
  - Pigs will compensate for some of the weight restriction by gaining faster the week after they are brought back up on feed, so monitor closely their weight gain.
    - If a pig has been restricted from feed for over 2 weeks, it is not uncommon if you place back on full feed they will weigh 20-25 lb heavier after just one week.
  
- ***What if I purchase the right size of pig and determine at a weight over 200 lb that the pig is going to be too big?***
  - There are two methods that can be used:
    - 1) Start to reduce the amount of feed intake as soon as possible of the same feed it was eating.
      - When holding in this weight range, you should top dress with a protein product/supplement.
      - Never feed below the energy maintenance requirement.
      - Use a fibrous ingredient to help “bulk” the ration to increase the amount of feed fed each day so the pig does not become shallow in appearance.
    - 2) Change the pig to a 10 CP% ration
      - Feed 4-5 lb of this diet each day and the pig will only gain 1 lb a day. This will keep the pig feeling fuller and more satisfied after each meal.
      - Once you have achieved the weight reduction needed, you can change them to the diet protein level that is desired to compliment the pig’s appearance best.
  - Exercise, exercise, exercise!
    - Your pig will burn calories when exercised. You should exercise every other day for 20-30 minutes, which will help reduce weight gain and keep your pig feeling good during this time.
  - Weigh pigs twice weekly at a minimum during this time period to monitor weight adjustments.





# Show Pig Nutrition

Dr. Joel DeRouchey, Kansas State University

- ***It is 2 weeks before the show and my pig is already at the ideal weight, now what?***
  - Crucial management is now required. This situation is the most unwanted by all pig showmen, and you can do the most harm to the appearance of the pig if you do not pay close attention.
  - There are two methods that can be used for the first week:
    - 1) For one week, feed the pig at or just above maintenance, supply a protein top dress, and exercise daily. Also, add a high fiber ingredient or supplement to keep the pig full and not get a hollow appearance.
    - 2) Change the pig to a 10 CP% ration and feed 4 lb of this diet each day and the pig will not gain much if any weight.
  - After week one, bring pig back up on feed, continuing to feed a protein top dress to bring back a fresh appearance.
  - NEVER use water restriction to reduce body weight.
  - Be very cautious when using the feed additive Paylean during this time, as Paylean increases growth rate of pigs, which is not desired if already at your ideal weight.

## **Feed Consumption and determining feed costs:**

- How much will my pig eat each day at different body weights?
  - 50 – 100 lb ~ 3-4 lb/day
  - 100 – 150 lb ~ 4-6 lb/day
  - 150 – 290 lb ~ 6-8 lb/day
- The amount of feed that it will take to feed a pig from 50 pounds is as follows:
  - Assuming pigs meet their body needs on an 18 or 16% CP diet.
  - A 3:1 feed conversation starting at 50 lb purchase weight; that is, for every three pounds of feed your pig eats, the pig will gain one pound of body weight.

<b>Ending Weight</b>	<b>Amount of Feed</b>	<b>Estimated # of 50# bags</b>
250 lb	600 lb	12
260 lb	630 lb	12-13
270 lb	660 lb	13-14
280 lb	690 lb	13-14
290 lb	720 lb	14-15



# Notes



# Ractopamine Hydrochloride (Paylean®)

*Dr. Joel DeRouchey, Kansas State University*

## **What is this feed additive?**

- Feed additive manufactured by Elanco Animal Health.
- Label claims of increased weight gain, improved feed efficiency, and increased carcass leanness.
- No withdrawal time when feeding this product.
- Paylean is labeled to be fed to pigs over 150 lb during their final 45 to 90 pounds of gain before market.
- The dosage of Paylean in feed is labeled for 4.5 to 9 grams/ton. All feeding levels (lower or higher) are in violation of labeling by FDA.

## **What are the limitations and cautions for use?**

- Paylean is labeled to be fed in a complete swine ration containing at least 16% crude protein.
- Pigs fed Paylean are at an increased risk for exhibiting the downer pig syndrome. Pig handling methods to reduce the incidence of downer pigs should be thoroughly evaluated prior to initiating use of Paylean. Paylean is NOT labeled for use in breeding swine.

## **Realistically, what can I expect from feeding this product?**

- For the first two weeks, expect a 5 to 15% increase in weight gain and feed efficiency. After 28 days of feeding, do not expect any further improvements in gain compared to a diet not containing Paylean. After 14-21 days, pigs will generally be 6-8 lb heavier than if they were not fed Paylean.
- Muscle mass may or may not be noticeably different until Paylean is fed for 10-14 days. Often, pigs look more muscular, but it is really they are just larger in size and still as lean bodied.
- If Paylean is fed for more than 4 weeks, feed intake and weight gain will begin to decrease.
- Every pig will be affected slightly differently with this product. An obvious consequence will be jeopardized structural correctness and an increase in the stress gene expression if your pig carries this genetic gene.

## **Where do I purchase Paylean?**

- Show feed suppliers generally have a product which can be purchased as a supplement that contains Paylean that you will mix into the current feed you are providing.
- Some feed companies sell a complete feed with Paylean already included.

## **How and when to feed Paylean?**

- Generally, it is fed for 7 to 21 days prior to your show.

## **How much of this product should I feed?**

- If you are only feeding this product for 1 to 2 weeks before show day, then 4.5 or 9 g/ton is an appropriate level.
- If you are feeding this product for over 2 weeks, then generally feed 4.5 g/ton complete feed.
- Be very careful if feeding this product as a daily supplement as it can be very easy to overfeed when in a top dress form.



# Paylean® (Ractopamine Hydrochloride)

Dr. Joel DeRouchey, Kansas State University

## What are the concerns or side effects of this product?

- *All major packers will **not** purchase pigs fed Paylean, so understand your show rules with Paylean feeding! Local lockers do not have these restrictions in almost all cases.*
- Observations have shown in some cases that the temperament of your pig is increased. Pigs **NEED** to be handled more gently and with greater care, as they can be more prone to show stress and become more hyper.
- By far, the largest concern is how structural soundness can be jeopardized. Some pigs clearly become restricted in movement from the increased weight gain and muscle in the short period of time that they are on it.
- Prolonged feeding of Paylean can also cause hoof cracks. A hoof conditioner can be used to keep them soft and not dry out which is a leading reason for cracking.
- Visit with your feed supplier more about their recommendations and the levels of Paylean that they offer in their feed.



# Clipping Your Pig

Dr. Joel DeRouchey, Kansas State University

Clipping is a tool used to help trim the long hairs of a pig to help give it a fresher, more attractive look and improve the muscle shape of your pig by removing long hairs that cover up their natural curves. Clipping, when done correctly, can enhance the appearance of your pig, but when done incorrectly, it can make your pig look unattractive.

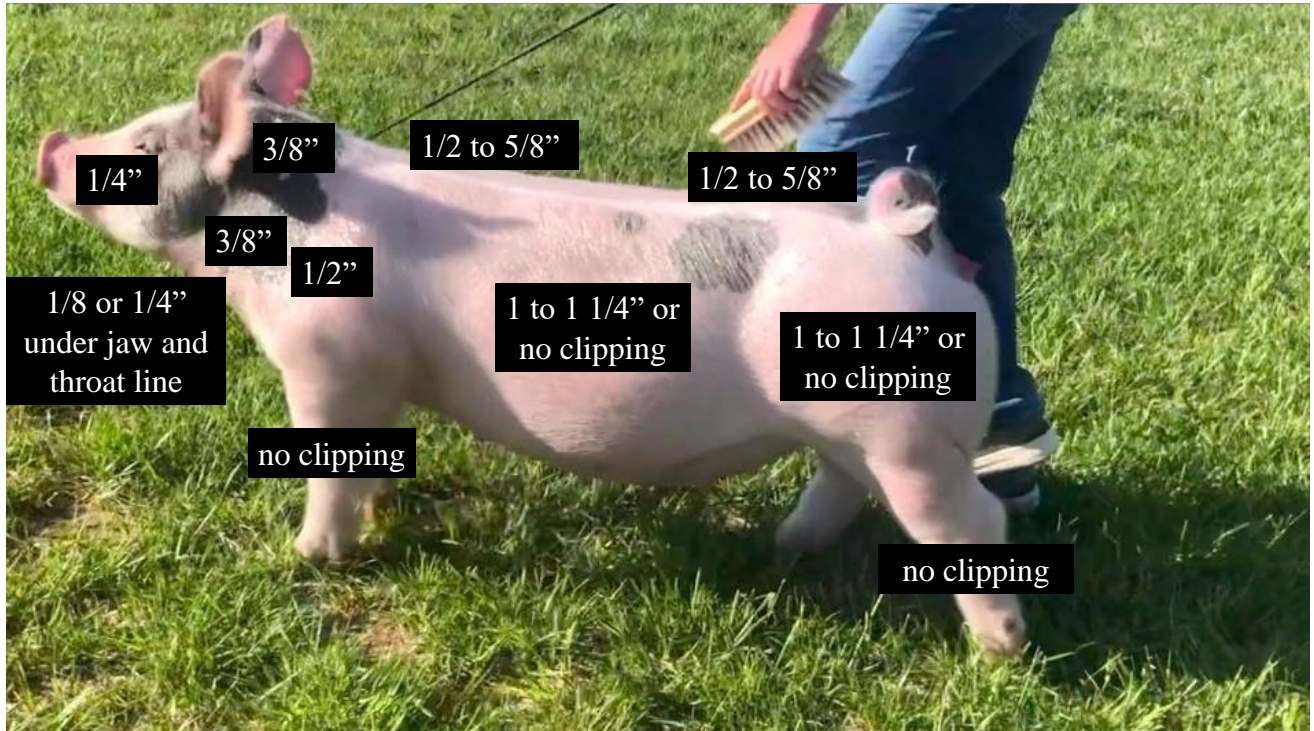
- Ideally clipping will be done **two to four days before going to your show.**
- Prior to clipping - It is important that you have been applying some mineral oil or other “show” skin conditioner for several days prior to clipping so the hair is soft and will trim easily. Also, if the hair is hard after clipping, it will stand up and not lay down nicely (i.e. your pig will look like a porcupine!).
- Washing with shampoo and conditioner (low-cost human products work great) can dramatically improve the softness of hair, as well as allow your pig to become use to you touching it, especially around their head. When washing, a moderately stiff brush should be used to scrub off dead skin cells and dirt.
- After washing, use a dry towel to remove excess water from your pig. Excess water can decrease the sharpness of your blades and dull them more quickly.
- **NEVER** shave the hair off a pig – this makes your pig look unattractive and market purchasers can refuse these pigs due to the short hair length. Always use clipper guards described below that attached to your clippers before clipping your pig.
- Body - Determining the desired length of the body that looks the best, will allow you to more easily blend the other sections of the pig together (i.e., the head and rump) Start clipping from the rear of the body moving your clippers up and forward, which will be against the grain (lay) of the hair. Pigs should only be clipped with a 1” or 1¼” guard on the body as it helps blend in and look natural. Some do no clipping on the body to maintain the full haircoat on the sides, ham and belly of the pig.
- Topline – from the top of the shoulder back to tail, most pigs can be clipped slightly shorter than you used on the body – such as a ¾ or ⅝ ” guard.
- Tail - use a ¾” guard to clip the hair on the bottom ¾ of the tail, and then just trim slightly the long hairs off the end of the tail. You do not want to trim the tail hair too much so when the pig curls its tail, it will look natural. Some do not clip any hair off any portion of the tail.
- Neck – use a ⅜ ” guard from jaw bone back to front of shoulder and up to the top of the neck.
- Face - ¼” guard on face and jaw, trim long eye lid and nose whisker hairs.
- Ears – generally DO not trim any ear hair.
- Under jaw and throat line – generally ⅛ or ¼” guard from the bottom of the mouth until between the front legs.
- Legs – generally do not do any clipping on the legs of pigs to enhance the appearance of bone size. You can trim very long or obvious hairs that do not blend and enhance your pig’s appearance on both front and hind legs.
- Sheath of barrows – clip the long hairs off the sheath of barrows with a ¼” guard.
- If you have a red hog, do not change the guard widths dramatically, as the hair clipped at different lengths will have contrasting red colors.
- Clip the entire pig while it is eating and/or laying down. However, if you have to restrain your hog to clip the head and face, use a soft rope that has a loop on the end. If you use a regular hog snare, place duct over the cable wire so the nose does not scratch.
- When you are done, brush off clipped hair and apply a light coat of oil or skin conditioner.



# Clipping Your Pig

Dr. Joel DeRouchey, Kansas State University

- **Avoid clipping your pig at the show.** This practice is to be done at home prior to leaving. Many shows have rules that do not permit clipping at the fair location. There are valid reasons including:
  - May add to the stress level of the pig and cause it to get excited and hot.
  - Since your pig may not be used to being clipped, it might now be more scared of you, which will not help when you show your pig!





# Show Preparation: Week Prior and at the Show

Dr. Joel DeRouchey, Kansas State University

## One week before the show

- If your pig is on a self-feeder, monitor its appearance closely. Some pigs may look more attractive if you begin to hand feed instead of remaining on the full feeder.
- Make sure your pig has clean bedding that will help the hair this last week. Avoid keeping the pig in a muddy pen the week prior to the show if possible.
- Wash your pig two or three times during this week with a mild soap if the pig has stains. Rinse your pig and brush to train hair to lay properly. When the pig is dry, apply a light coat of mineral oil to the dark hairs of your pig. This will soften the hair, shine the skin, and will help develop a fresher appearance. Only apply oil in the evening when it is cool.
- Know all of the policies, requirements, and rules at your show for hair products that can or cannot be used in the show ring.
- Start packing your show box. **You should pack the following supplies before you leave:**
  - Bedding
  - Soap and scrub brush
  - Health paper
  - Water sprayer
  - Short hose
  - Whip and small pocket brush
  - Hand cleaner
  - Waterer, feeder and plenty of feed
  - Electrolytes
  - Hammer, nails, zip ties, wire, and pliers
  - Towels
  - Safety pins or pocket clip for exhibitor number
- If you want to clip your pig, now is your last chance and this should generally be done 3 or 4 days prior to leaving for the show.

## Leaving for the show

- Feed your pig only  $\frac{1}{2}$  to  $\frac{3}{4}$  of the normal daily ration of the morning you leave. This will help your pig travel more comfortably. To help keep your pig hydrated, you may want to use electrolytes in the water. You can use electrolytes in the water at the show as well. However, it is recommended that you use no electrolytes on the day of the show, only clean water.
- Do not add more than the recommended amount of water electrolytes as directed on their label, as some can be very bitter, which will cause the pigs to drink less.
- When loading your pigs for the show on the trailer, do not overcrowd and keep them comfortable. It is recommended you practice loading your pigs a few times prior to loading for the show. This will allow the pigs to know the routine and lower the stress of the pigs and you!

## At the show fairgrounds

- Calmly move your pig to the correct pen after you unload.
- Be sure that there is plenty of clean dry bedding for your pig at all times.
- Give your pig a drink of fresh water after arrival. Also, give your pig about  $\frac{1}{4}$  of a regular feeding.
- Weigh your pig in at its natural weight.
- After weighing in, be careful not to full feed your pig immediately. This can cause digestive upset due to the changes in feeding amounts the couple days prior. Giving many smaller amounts can help lower the chance of them going off feed.
- Feed your pig to give them a natural look.
- Always provide all the water they want to drink through a tube waterer or give a drink 5-7 times a day



# Show Preparation: Week Prior and at the Show

*Dr. Joel DeRouchev, Kansas State University*

- In the evening when the weather cools, exercise your pig to help its joints stay loose and flexible. However, avoid going in and out of the same gate in the show ring, as your pig will learn more quickly the location to leave the show ring and go back to the pen, which will cause problems show day.
- Get plenty of sleep; you have a big day tomorrow!

## Show morning

- First thing you can take your pig out of the pen for quick exercise. This will allow it to loosen joints and give you time to clean the pen of manure. Also, remove any feed not consumed overnight so you can give them fresh feed.
- Give enough feed and water to get a proper body fill to make your pig look its best. Never overfeed first thing in the morning, as it could cause them to go off-feed for the rest of the day. Remember, you can always feed again later that morning or afternoon if your pig could be fed more before you go into the ring.
- Cleaning your pig:
  - Wash pig with gentle soap and thoroughly rinse.
  - You can use a hand cleaner (i.e. Go-Jo) on your pig before you wash and let it cover the pig for a couple of minutes and rinse. This really will get the dirt off and add a shine and luster to the hair and skin.
  - Brush the hair so the hair lies properly (brush front to back).
  - Before returning your pig to its pen, make sure all dirt and manure are removed from its pen. Add additional clean bedding if needed.
  - After your pig dries, you can apply a coat of hair conditioner to start shining the skin and hair. All show equipment suppliers have swine skin conditioners available.

## Show time

- Be sure to have a nice-looking whip and small pocket brush.
- Make sure that your pig is brushed off, so no dirt or bedding is present.
- Apply a skin and hair shine type product to enhance pigs' appearance.
- Spray water on your pig to give it a fresh look. Always show your pig so it is wet with water on it.
- Most importantly, make sure you look ready.
  - Wear proper clothing. If a T-shirt is given to wear, be sure to wear it. If not, wear a clean, neat shirt and dark pants. Wear leather shoes or boots. Never wear tennis shoes or a hat.
- Know your pig's ear notch or tag number for easy check-in.
- Give your pig a drink of water before leaving the pen.
- If you have to wait in a holding pen, stay calm and try to keep your pig from getting dirty.
- Once you enter the show ring, have fun!!

## After the show

- Once the show is completed, you still have the responsibility of taking care of your pig.
- Your pig should always continue to have plenty of fresh water and feed and stays cool.
- Also, pay close attention to your pig so that it is relaxed and not overly stressed from being shown.





# Swine Showmanship

Dr. Joel DeRouchev, Kansas State University

## Definition

Showmanship is the skill of exhibiting your animal in a way that the judge sees the best physical characteristics of your animal. Due to the nature of the livestock, proper showmanship is not something that happens automatically. Hogs, like all show animals, require time training. Showmanship is based on how well you, the exhibitor, handle and control your hog in the show ring.

## What to Do at Home

Your animal will not cooperate in the show ring without proper practice and training at home. Since hogs can roam freely through the show ring, they require more attention to be able to control and drive them. Necessary steps need to be taken at home, before the show, to ensure that your animal is tame and can be shown to the best of their ability.

*To **drive a hog** means to controllably move a hog throughout the ring with your driving tool.*

## First 30 days at home

The first 30 days you have your hog is an essential time for you to interact with your animal. Since your hog has been moved to a new facility, usually without other animals it's used to, you need to gain your animal's trust. This also helps calm your animal and make them tame. During this time, you should "become friends" with your animal by feeding, washing, brushing and cleaning their pen. Pigs really gain your trust when you scratch them and rub their belly – they will often then roll on their side. This really helps later when you need to clip them prior to the show. By doing these small things the animal will slowly become docile and easy to work with. This process takes a lot of time with some animals.

## Exercising and Practicing

Exercising routinely helps your animal's growth and development as well as gives you showmanship experience. Here are some tips to keep in mind when starting to work with your animal:

- Anything you do at home will relate to what your animal does in the show ring.
- Use the same whip type at home as you plan to use in the show ring.
- Mix up your exercise pattern, pigs can fall into a rut of doing the same thing over and over.
- Once your animal is easily controlled with your whip it is a good practice technique to put up obstacles to walk your animal around.
- A well-groomed animal is essential for the showing. This includes the pig being clean, free of scratches, sunburns and other blemishes.

## At the Show

Once you arrive at the show, prepare your pen for your animal and get all of your tack set up. It is good practice to keep the same routine at the show as you would normally do at home so your animal will not get stressed in a new environment. If you arrive a few days early to your show, feed at your regular feeding times and exercise daily as you did at home. Feed, water and wash your animal ahead of time on the day of the show. Make sure you have a clean pen for your hog if it were to lie down before the show.



# Swine Showmanship

Dr. Joel DeRouchey, Kansas State University

## During the Show

It is important to remember that the judge is looking at how you exhibit your animal during showmanship. Many times, neat dress is a factor that comes into play. The proper dress for the show day is jeans without holes or tears, leather boots, belt, and a button up shirt. It is important for you to take a brush into showmanship with you in case your animal was to get dirty in the ring.

When you enter the show ring, stay calm. Once your animal is let out of the gate, drive your animal slowly across the ring so that the judge gets a good front, rear and side view of your animal. If your animal takes off when the gate opens do not run but rather walk fast to catch up and control your animal. Once in the ring, stay at about the half-way point across the ring from the judge and show ring gate until all pigs are in the ring. This prevents your pig from running out of the show ring and allows other exhibitors to bring their pigs into the show ring without your pig interfering. Once all animals and exhibitors are in the ring, now is the proper time to slowly walk your animal toward the judge for a proper view (front, rear and side view). This is the first impression you will give the judge and often is the determining factor in placing's.

It is important to keep eye contact with the judge and know where he/she is always in the ring. Do not crowd the judge; instead, leave approximately 10 feet in between your animal and the judge. If the judge walks behind your pig, keep it moving forward, never let it stop. Also, you should never get between the pig and the judge. It is appropriate to walk in front of your pig, if needed, rather than walk between the judge and your pig.

Try to keep your animal in the center of the ring and if your animal gets in a corner or on the fence use your hand around its face to move it from the corner. You should also drive the pig at the judge to give a front view as well as walk the pig directly away to show the rear view. Never hit your animal hard with your whip, this is unprofessional, and you will get put in last place most likely.



## Penning Your Animal

If the judge asks you to pen your animal, direct your hog toward the pens and drive him there. Do not open a pen until your animal is near the gate. If your animal moves away from the pen close the gate so that other exhibitor's animals do not accidentally go into the pen. Once you get your animal in the pen, do not stop showing. Often, judges watch the exhibitors in the penning area. It is good practice to brush your animal once in the pen to get off any excess dirt that may have gotten on the animal while walking in the ring. Attempt to keep the pigs head in the corner of the pen that opens, this helps get your pig out of the gate faster and easier. Do not let your animal lay down in the pen. Once the judge asks you to come out of the pen make sure to close the gate behind you.



# Swine Showmanship

*Dr. Joel DeRouche, Kansas State University*

## Questions

A portion of showmanship to some judges is how much the exhibitor knows about their project. During showmanship, a judge may choose to ask each exhibitor a question. It is important to know about the daily care of your project as well as talking to your parents and/or extension agents about possible questions. Some of these may include:

- What is your animal breed?
- What is the ear notch of your pig (or they may ask what is the ear notch of the pig in the next pen!)?
- What are the positive and negative traits of your animal?
- What are the positive and negative traits of another showman's pig?
- What is the weight of your animal?
- How much do you feed your animal?
- What ingredients are in a pig feed?
- How much does the feed cost?
- What is the current market price for a market pig?
- What is the gestation length of a breeding gilt or sow?



Above all, showmanship is enjoying your youth swine project and having pride in all your hard work showcased while in the ring. While it is important to be serious when showing your pig, do not forget to have a good time. Judges can see when this is something the exhibitor wants and enjoys doing.

Use these tips to work on your showmanship skills with your swine project!