SWINE ADVANCEMENT LEVELS



New Mexico 4–H is a program of New Mexico State University's Cooperative Extension Service



SPECIE: <u>Swine</u> LEVEL: <u>I</u> – NAME: <u>Layman</u>

		Date <u>Passed:</u>	Approved <u>Bv:</u>
Sk	ill Options: (Choose 10)	I HOSEAN	<u>D, ()</u>
	Name, correctly spelled, and identify the different body parts.		
2.	Name, correctly spelled, and identify the pork wholesale cuts.		
3.	Visit the meat counter of a local grocery store and examine the different cuts of pork.		
4.	Give an oral report on what, how much, when and how you feed.		
5.	Demonstrate how to drive a hog in the show ring.		
6.	Demonstrate how to wash a hog.		
7.	Demonstrate how to brush a hog.		
8.	Outline safety precautions taken when working around hogs.		
9.	Name 3 ways in which hogs are useful to man.		
10	Weigh your hog.		
11.	Name and describe the color patterns and characteristics of six major breeds of hogs.		
12.	Correctly spell and define the following terms: pig, hog, gilt, sow, boar barrow, shoat.		
13			
	rsonal Development Options: (Fill in options from page 7.)		
1.	Give a demonstration/illustrated talk to your club.		
2.	Bring your project record books up to date.		
3.			
4.			

<u>Citizen's Pride Options:</u> (Fill in options from page 8). 1. _____ _____

Resources:

4-H Project Manual	Livestock & Show Ring Publications
County Extension Personnel	Registered & Commercial Breeders
Extension Livestock Specialist, NMSU	Veterinarians
N.M. Brand Inspectors	Encyclopedia

SPECIE: <u>Swine</u> LEVEL: <u>II</u> – NAME: <u>Novice</u>

		Date Passed:	Approved By:
Sk	ill Options: (Choose 10)		
	Name the nutrients that are essential in hog rations and a source of each one.		
2.	Write a report on various hog feeds available in your area. (150 word minimum).		
3.	Name the most common external parasites that affect hogs.		
4.	Explain the differences between rations formulated for growth and those formulated for maintenance.		
5.	Demonstrate dressing procedures for a show.		
6.	What vaccinations are given to hogs? Why?		
7.	How many hogs are there in New Mexico? U.S.? World?		
8.	Compare the advantages and disadvantages of hand-feeding to		
	those of self-feeding.		
9.	Visit a packing plant.		
10.	Build a fogger.		
11.	Explain what facilities and equipment are needed to raise hogs. How do the facilities needed for breeding operation differ from those required for raising market hogs?		
12.	Detail the life cycle of the large roundworm and outline		
	methods of control.		
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Pe	rsonal Development Options: (Fill in options from page 7.)		
1.	Give a demonstration/illustrated talk to your club.		
2.	Bring your project record books up to date.		
3.			
4.			

<u>Citizen's Pride Options:</u> (Fill in options from page 8).

1. _____

Resources:

4-H Project Manual	Livestock & Show Ring Publications
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SPECIE: <u>Swine</u> LEVEL <u>III:</u> – NAME: <u>Apprentice</u>

		Date <u>Passed:</u>	Approved <u>By:</u>
<u>Sk</u>	<u>ill Options:</u> (Choose 10)		
1.	Formulate rations for three different protein levels.		
2.	Outline basic showmanship rules.		
3.	Explain what equipment is needed at a fair.		
4.	Demonstrate proper methods of storing medications, sterilizing equipment, filling syringes and administering vaccinations. Include safety precautions.		
5.	Demonstrate how to ear-notch pigs.		
6.	Correctly spell and define the following traits: chromosome, heritability, genotype, phenotype, inbreeding, linebreeding, crossbreeding, and hybrid vigor.		
7.	Explain the purpose of breed and industry associations.		
8.	Explain the USDA hog grading systems.		
9.	Explain the purpose of A.I. and the advantages and disadvantages of utilizing it in a swine breeding program.		
10	Explain the management practices performed at farrowing time.		
11.	Explain how semen is evaluated.		
12	Enter a showmanship contest.		
13			
Pe	rsonal Development Options: (Fill in options from page 7.)		
1.	Give a demonstration/illustrated talk to your club or another group. (15 minute minimum)		
2.	Bring your project record books up to date.		
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<u>Citizen's Pride Options:</u> (Fill in options from page 8).

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SPECIE: <u>Swine</u> LEVEL: <u>IV</u> – NAME: <u>Junior Livestockman</u>

		Date Passed:	Approved <u>Bv:</u>
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	<u>ill Options:</u> (Choose 10)		
1.	Diagram and explain the monogastric digestive system.		
2.	Build a summer shade or winter shed.		
3.	Place a class of four hogs and give a set of oral reasons.		
4.	Write a report on different methods of curing and cooking pork. (250 word minimum)		
5.	What is the length of gestation in a sow? Length of estrus? Interval between heat periods?		
6.	Demonstrate how to clip teeth.		
7.	Explain the advantages and disadvantages of raising hogs in New Mexico.		
8.	Write a report on one hormone and its functions.		
9.	Explain how to select for desirable maternal traits.		
10.	Visit a livestock auction.		
11.	Explain in detail two ways that hog prices are determined.		
12.	Explain what is meant by: 2 breed rotational, 3 breed rotational and terminal crossbreeding programs.		
13.			
Pe	rsonal Development Options: (Fill in options from page 7.)		
1.	Prepare a speech related to your swine project and present it to a group other than your club (15 minute minimum).		
2.	Bring your project record books up to date.		
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<u>Citizen's Pride Options:</u> (Fill in options from page 8).

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SPECIE: <u>Swine</u> LEVEL: <u>V</u> – NAME: <u>Senior Livestockman</u>

	The second secon	Date <u>Passed:</u>	Approved By:
Sk	<u>ill Options:</u> (Choose 10)		
	Calculate average daily gain, feed efficiency, feed costs/year and cost of feed/lb of gain.		
2.	Demonstrate castration.		
3.	Diagram and describe the parts and functions of the male and female swine reproductive tracts.		
4.	Identify the retail cuts of pork.		
5.	Prepare a display promoting pork.		
6.	Write a report explaining different ways to market hogs (250 word minimum).		
7.	Explain how to select for desirable carcass traits.		
8.	Demonstrate how to read a pedigree.		
9.	Predict the muscle score, backfat and USDA yield grade of five head of slaughter hogs and 5 head of feeders.		
10	Explain preparations necessary before transporting hogs in summer and winter.		
11.	Outline what happens to feed after it is digested.		
12	Improve your swine project in two ways.		
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<u>Personal Development Options:</u> (Fill in options from page 7.)

1.	Prepare a speech related to your swine project and present it to	
	any group (15 minute minimum).	
2.	Bring your project record books up to date.	
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<u>Citizen's Pride Options:</u> (Fill in options from page 8.)

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SPECIE: <u>Swine</u> LEVEL: <u>VI</u> – NAME: <u>4-H Animal Scientist</u>

	Date <u>Passed:</u>	Approved <u>By:</u>
Skill Options: (Choose 10)		
1. Write a report on the sources, functions and deficiency symptoms of vitamins and minerals (500 word minimum).		
 Name five swine diseases, their causative organisms, symptoms treatments and control. 		
3. Write a report on genetics (300 word minimum). Demonstrate how to construct and use a punnet square.		
4. Organize a pork promotional activity.		
5. Study five careers related to the swine industry. List the advantages and disadvantages of each.		
6. Study different types of management systems. Develop your own plan for a 200 sow confinement operation. Include		
facilities, breeding system, rations, marketing procedures, and all other management practices.		
7. Demonstrate how to trim fat.		
8. Calculate dressing percentage. Explain how treatment prior to slaughter can affect it.		
9. Compare the USDA grades with the grades used in the most common form of merit buying.		
10. Learn the swine certificate program.		
11. Learn the heritabilities for the important production traits.		
12. Show how production traits are related to pure and crossbreeding.		
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Personal Development Options: (Fill in options from page 7.) 1. Bringing your project record books up to date.		
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<u>Citizen's Pride Options:</u> (Fill in options from page 8.)

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PERSONAL DEVELOPMENT OPTIONS: (Choose different options for each level.)

- 1. Lead the Pledge of Allegiance and 4-H Pledge at a meeting.
- 2. Preside at a meeting.
- 3. Lead a song or a game at a meeting.
- *4. Write a news story for a local paper.
- 5. Write a column for your club's newsletter.
- *6. Participate in a radio program.
- *7. Participate in a television program.
- 8. Serve as chairman of a committee.
- *9. Participate in a judging or evaluation contest.
- *10. Serve as a Junior Leader.
- *11. Serve as a Teen Leader.
- 12. Attend a 4-H Camp.
- 13. Be a Teen Counselor at camp.
- 14. Serve as clerk, chairman or ring steward at a show.
- 15. Develop a display which is related to 4-H.
- 16. Make arrangements for a tour by your club.
- 17. Arrange for a film to be shown at your club meeting.
- 18. Secure a speaker for a club meeting.
- 19. Participate in Achievement Day.
- 20. Plan a function for your club separate from a regular meeting.
- 21. Give a demonstration to your 4-H Club or other group on a topic unrelated to your project.
- 22. Prepare a scrapbook of your 4-H activities.
- 23. Serve as host for a 4-H Meeting. Make arrangements for refreshments.
- 24. Attend a livestock tour or field day and give a report at your club meeting.
- 25. Set 4-H, educational and career goals for yourself. Write them down.
- *26. Develop some options of your own with your leader's approval.

*These may be repeated at different levels.

<u>CITIZEN'S PRIDE OPTIONS:</u> (Choose different options for each level.)

- *1. Prepare a display that would be educational or helpful in stressing:
 - A. Clean air, water or land
 - B. Conservation of natural resources
 - C. Safety
- *2. Organize a Club Community Service Project.
- *3. Participate in a Club Community Service Project.
- 4. Do something to physically improve your neighborhood.
- *5. Do a chore for someone who needs help.
- 6. Organize a clean-up committee for helping to keep your school and school grounds clean.
- 7. List the safety hazards you see around your house or neighborhood.
- 8. Design an escape plan for the members of your family in case your house should catch on fire.
- 9. Make a poison safety check in your own home.
- 10. Visit a hospital, clinic or nursing home. What can you do to help with the welfare of those you visited? Make a plan and carry it out.
- *11. Personally collect clothing or canned goods for the needy.
- 12. Obtain and paint public trash receptacles.
- 13. Help to plant trees, shrubbery, or flowers around churches, community buildings and/or public places.
- 14. Conduct a home energy conservation survey in three homes.
- 15. Interview a leader or member or a religious denomination that is unfamiliar to you.
- 16. Make a toy for the nursery in your place of worship.
- 17. Sing in a youth choir.
- 18. Write a letter to the editor of your newspaper (attach a copy to your 4-H record).
- 19. Attend a city or county court hearing while it is holding trial by jury.
- 20. Interview a public official to see what they do.
- 21. Tour your city hall or courthouse.
- 22. Run for a school, class or club office. Develop your platform and run your campaign.
- 23. Invite your state representative to speak to your 4-H Club or county 4-H group.
- 24. Read a daily newspaper every day for five days. Make a list of current problems affecting New Mexico and the United States. Decide what you can do to help solve those problems. Make a plan of action and carry out the plan.
- *25. Develop some options of your own with your leader's approval.

*These may be repeated at different levels.

		has completed all requirements for	
	(Name)		
Level	of the	Advancement Program.	
(No.)	_ of the (Type in Specie)	C	
Approved by:			
	Club Leader	Date	
	Advancement Committee	Date	
This certifies that _	(Name)	has completed all requirements for	
Level	of the (Name of Specie)	Advancement Program.	
(100.)	(Name of Specie)		
Approved by:			
	Club Leader	Date	
	Advancement Committee	Date	



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