

185 Equine Reproduction and Genetics

Advanced Level

This advanced-level project is designed to be taken over a 3-year period. Members should build upon their knowledge, completing additional Interest Areas each time they take this project.

Members do not need to purchase a new book each year. Instead, they will need to complete additional interest areas. Keep all these activities in a notebook.

Members must have access to a horse to complete this project.

General Guidelines

1. Complete "Planning Your Project" sections on pages 7-20.
 - a. Explore Interest Areas as outlined below, completing at least 2 Things to Do for each Lesson. Those with a check mark in front of them are mandatory. Note, county recommendations for completing Interest Areas and Things to Do (listed on the reverse) vary slightly from those printed in the project.
 - b. Document all completed Things to Do in your project notebook (3 ring binder). This notebook should be cumulative and contain documentation of all completed Things to Do for each year of the project.
 - c. Take part in at least two (2) Learning Experiences.
 - d. Become involved in at least two (2) Leadership/Citizenship Activities.
 - e. Write a one page report telling about what you have done and learned in this project.
2. Complete the Equine Record Book (R190).
3. Bring to Interview Judging:
 - a. Neat and complete project book.
 - b. Project notebook.
 - c. One page report.
 - d. Equine Record Book.
4. Fair exhibit:
 - a. For completion of this project, your horse may be exhibited at the Tuscarawas County Fair. If your horse is not exhibited, an educational display or 14" W x 22" H poster illustrating and describing some aspect of your project must be present in your club's fair booth.



Equine Reproduction and Genetics Year One

- Complete the Equine Reproduction Section (pages 21-45)
 - o The Mare
 - Parts of the Ovary and related structures
 - The Estrous Cycle
 - Reproductive organs of the mare
 - o The Stallion
 - Reproductive tracts of the stallion
 - Parts of the testicles
 - Factors affecting sperm output
 - o Breeding Recommendations
 - Artificial insemination
 - Preparation for breeding and breeding procedures
 - Miscellaneous mare breeding problems

Equine Reproduction and Genetics Year Two

- Review all areas from Year One
- Complete the Mare and Foal Management Section (pages 45-55)
 - o Brood mare management prior to foaling
 - o The three stages of foaling
 - o Post foaling mare problems
 - o Post foaling foal problems
 - o Lactation in mares
 - o Foal growth and miscellaneous care

Equine Reproduction and Genetics Year Three

- Review all areas from Year One and Two
- Complete the Genetics Section (pages 56-70)
 - o How genetics work
 - o Terms
 - o Qualitative traits
 - o Quantitative traits
 - o Factors that affect the rate of genetic progress
 - o Interpreting pedigrees
 - o Coat color inheritance

County 4-H Project Completion and Judging Overview 2020

Please carefully read this information; it may answer most Interview Judging or county fair questions.

Project Guidelines

For project guideline information, visit: go.osu.edu/tusc4-hguidelines

All project guidelines are available online. Only equine and livestock projects will receive guidelines with project book.

Guidelines need completed for Interview Judging. Members taking more than one project in the same interest area need to complete guidelines for each project and cannot use the same items to support both projects.

For a member to achieve the progression of goals needed for development, 4-H projects must be separate and different from those carried in other organizations such as FHA/HERO, FFA, Scouts, Camp Fire, grange, church, and school (including industrial arts class, science fairs, etc.).

Project Completion and Interview Judging

For more Interview Judging information, visit: go.osu.edu/tusc4-hjudging

Completion of a 4-H project may be achieved in one of two methods. Members must choose one of the following for evaluation, based on the completion of project guidelines and knowledge gained. **All projects must be judged no later than August 7.**

- *4-H Project Interview Judging* – All members are required to attend an Interview Judging evaluation to receive a project grade. All projects are evaluated using individual project guidelines. Club times will be assigned, and advisors will be notified of their club's times. Members are strongly encouraged to attend at their club's scheduled time.
- *Pre-Judging* – Pre-Judging is arranged in advance. Any member who is unable to participate in 4-H Project Interview Judging may participate in Pre-Judging. Participants will be ineligible for county awards and state fair participation. Contact the Extension office **after June 1** to schedule an appointment. Post-Judging arrangements will be reviewed on a case-by case basis if a member misses Interview Judging due to extenuating circumstances.

Dress Code

Clothing and footwear need to be neat, clean, and appropriate for a professional office interview. No blue jeans or shorts. Shirts/tops and skirt length should be conservative. Wear appropriate shoes (no flip flops).

#2010 Dog Obedience

Judging dates are determined by the key leaders and will be distributed at the dog project information meeting.

#588 The Writer in You

Writings are due to the Extension office **before Noon on Thursday, July 2, 2020.**

Shooting Sports Projects

The Shooting Sports program is designed for 4-H members ages 9 to 18 (4-H age). Judging dates are determined by the key leaders and will be distributed at the Shooting Sports orientation meeting.

Llamas/Alpacas Projects

Tuscarawas County does not currently have a program in place for llamas/alpacas.

Precise Schedules to be Announced				
Monday July 13	Tuesday July 14	Wednesday July 15	Thursday July 16	Thursday July 23
Equine (includes Horseless Horse)	FCS Related	Small Livestock (all goats, poultry, rabbits)	Dairy	Clothing and Style Review
Swine	Food and Nutrition		Beef	
	Miscellaneous		Sheep	
	#200 All About Dogs #201D You and Your Dog			



Member Evaluation Form

This form is due to our office no later than June 15, 2020.

This is available from the organizational advisor or online (go.osu.edu/tusc4-hjudging). It is to be **completed by the 4-H Advisor and parent/guardian** if they feel it is necessary that the judge should use special consideration concerning a 4-H member during Interview Judging.

State Fair Eligibility

For more State Fair competition or entry deadline information, visit: <http://www.ohiostatefair.com>

A 4-H member taking non-livestock projects must attend regularly scheduled judging to be eligible to place in the county or be eligible to go to State Fair. No pre-judging participants will be considered. NOTE: 4-H members in clothing projects must participate in the county 4-H Style Review to be eligible to be selected for State Fair competition.

County Fair

For more county fair information or to see the fair booklet, visit tusccountyfairgrounds.com.

All members attending a Quality Assurance session will receive the Junior Fair Section of the Tuscarawas County Fair Book. Fair entry forms, rules, and show information are in the booklet.

Of special note:

- **All Junior Fair exhibitors must have their official entries completed and signed by their parent/legal guardian regardless of age. The Tuscarawas County Extension office collects Junior Fair Entry Forms on behalf of the Senior Fair Board. All entries must be in the Extension office before by 4:00 p.m. on August 7, 2020. LATE ENTRIES ARE NOT ACCEPTED BY THE TUSCARAWAS COUNTY AGRICULTURAL SOCIETY – NO EXCEPTIONS.**
- Wristbands will be distributed only to members who have a yes (Y) in the Club Completion Column on their club's Completion Sheet.
- Members must have an exhibit at the county fair (as stated in project guidelines) in order to receive a fair premium. If there are circumstances where an animal is not able to be exhibited, a display or poster must be exhibited in the member's club's or county miscellaneous booth.

PROJECT RATINGS, PREMIUM REQUIREMENTS, and PAYMENTS		
<i>All premiums are paid by the Tuscarawas County Agricultural Society based on project rating received at 4-H Interview Judging.</i>		
Gold	<ul style="list-style-type: none">• Exceptional project knowledge.• Work exhibits extra effort with individual initiative to go above and beyond the project requirements.• A thorough understanding of proper methods to complete project.	\$8
Silver	<ul style="list-style-type: none">• Very knowledgeable of project subject matter.• Completed project requirements.• Project presented in a neat and organized manner.	\$7
Bronze	<ul style="list-style-type: none">• Adequate project knowledge.• Has made effort towards completing requirements and project presentation	\$6
Participation	<ul style="list-style-type: none">• Shows little effort towards completing requirements and presentation.	None
MEMBER'S PRESENTATION AND ATTITUDE WILL AFFECT PROJECT RATING		

Please email or call us at 330-339-2337 if you have any questions.

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2020 Tuscarawas County Junior Fair Livestock Requirement Summary

Each 4-H or FFA member may exhibit two large livestock projects, (in beef and sheep breeding a member may exhibit a third animal if they are enrolled in the corresponding market project) of which must be in different classes. Members can only exhibit two small livestock projects, which must be in different classes. Members are only eligible to receive money from a maximum of two revenue generating livestock sale projects at the fair, regardless of the number shown. (See fair book for complete Junior Fair rules.)

	Mandatory Project Enrollment Date	Possession	Weigh-In, Tag/Tattoo, Banding, DNA, or Pictures	Quality Assurance	Livestock Interview Judging	Fair Entries	Animal Requirements	Health Requirements	
Market Beef & Dairy Market Beef	December 14 or 16, 2019	December 14, 2019	December 14 or 16, 2019	<p>MANDATORY ATTENDANCE AT ONE SESSION IS REQUIRED. Registration for each session begins at 6:00 PM. February 27, Tuscarawas Valley High School March 23, Port Washington Elementary March 29, Super Sunday – Small Animal QA 1:15 PM, Large Animal QA 2:45 PM, Union Hospital Cafeteria April 29, Dover Middle School Dairy-specific session: April 19 – Registration begins at 1:30 PM Union Hill United Methodist Church</p>	<p>July 16, 2020 Midvale Elementary</p>	<p>Due August 7, 2020 No late entries accepted!</p>	1000 lbs. minimum Heifer or Steer must be Male castrated & dehorned	DUNF Vet check upon arrival	
Beef Breeding	<p>April 15, 2020</p>	<p>June 15, 2020</p>	<p>Registration form/Color Pictures due by 4 PM on June 15, 2020, to Extension office</p>				<p>July 13, 2020 Midvale Elementary</p>	Calf, Heifer or Cow dehorned	No health papers required. Vet check upon arrival
Beef Feeder Calf								350-650 lbs. Steers, castrated & dehorned	No health papers required. Vet check upon arrival
Dairy Cattle								Calf, Heifer or Cow Dehorned	DUNF Vet check upon arrival
Sheep Breeding								Ewes	No health papers required. Vet check upon arrival
Market Hogs								ID Form/Pictures June 15 by 4 PM OSU Extension Tuscarawas County	200-315 lbs. Barrows or Gilts ½ inch hair at fair time
Market Lambs	Tag-In – NO DNA – June 6, 9-11 AM OR June 11, 6-7 PM appt. only Fairgrounds	90 lbs. minimum Ewes or Wethers	DUNF Vet check upon arrival						
Market Goats	Tag-In & scrapie tag info – NO DNA – June 6, 9-11 AM OR June 11, 6-7 PM appt. only Fairgrounds	65 lbs. minimum Castrated & Dehorned	DUNF Vet check upon arrival						



	Mandatory Project Enrollment Date	Possession Deadline	Weigh-In, Tag/Tattoo or Pictures	Quality Assurance	Livestock Interview Judging	Fair Entries	Animal Requirements	Health Requirements
Dairy Goats	April 15, 2020	June 15, 2020	Registration Form due June 15 by 4 PM Extension office	MANDATORY ATTENDANCE AT ONE SESSION IS REQUIRED. See front for dates.	July 15, 2020 Midvale Elementary Check with advisor for your club's time. BROILER EXHIBITORS: Must bring thank you for Orrville Chick Hatchery.	Due August 7, 2020 No late entries accepted!	Dehorned No Males	DUNF Vet check upon arrival
Pygmy Goats & Pack Goats		June 15, 2020	Registration Form due June 15 by 4 PM Extension office				Dehorned	No health papers required. Vet check upon arrival
Market Rabbits		Doe in possession & tattooed June 6, 9-11 AM OR June 11, 6-7 PM appt. only Fairgrounds	Bunnies tattooed August 29 9-11 AM Fairgrounds				3-5 lbs. maximum 70 Days Old	DUNF
Breeding Rabbits		June 6, 2020	June 6, 9-11 AM OR June 11, 6-7 PM appt. only Fairgrounds June 15 - Registration Form/Pictures if rabbit is already tattooed				N/A	No health papers required.
Broilers & Market Ducks		Cost: TBD Due at pick-up Pick up: Fairgrounds Tentatively August 6 5-7 PM	N/A				N/A	No health papers required. DUNF
Pullets & Fancy Poultry		June 15, 2020	Registration Form/Pictures due June 15 by 4 PM Extension office				See Fair Book for specific requirements.	Pullorum-free papers required upon arrival
Ducks, Geese, & Fancy Turkeys		June 15, 2020	Registration Form/Pictures due June 15 by 4 PM Extension office				See Fair Book for specific requirements.	Ducks - No health papers required.
Market Turkeys		Cost: TBD Due at pick-up Pick up: Fairgrounds Tentatively June 4 5-7 PM	N/A				20 lbs. minimum	DUNF Pullorum-free papers required upon arrival
Horses		May 29, 2020	Registration Form/Pictures due May 29 by 4 PM Extension office				Safety & Ethics April 23 or April 27 7 PM Location TBD	July 13, 2020 Midvale Elementary

*See the Tuscarawas County Fair book for more information.