

762 Horse Nutrition

Advanced Level

This advanced-level project may be taken a maximum of three (3) years. Members do not need to purchase a new book each year. Instead, they will need to complete additional items under each interest area. Keep all these activities in a notebook.

Members must have access to a horse for completion of this project.

General Guidelines

1. Complete "Planning Your Project" supplement.
 - a. Explore all Interest Areas, completing two (2) Things to Do for each area.
 - b. Document all completed Project Activities in your project notebook (3 ring binder). This notebook should be cumulative and contain documentation of all completed Project Activities 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.



Supplemental Member Project Guide: 762 Horse Nutrition

General Project Guidelines

1. Complete the “Planning Your Project” section of this guide
2. Explore Interest Areas, completing at least two (2) Things to Do in each area.
3. Take Part in at least two (2) Project Learning Experiences.
4. Become involved in at least two (2) Leadership/Citizenship activities.
5. Write a one-page report telling what was done and learned through this project.
6. Have access to a horse.

Planning Your Project

Step 1: Interest Areas

Explore Interest Areas in accordance to options listed above. As you begin to explore or re-explore an Interest Area, place the current date (mo./yr.) next to it.

Date Started
(mo./yr.)

Interest Area

- | | |
|-------|--|
| _____ | 1. Animal Factors (pages 4-13) |
| _____ | 2. Diet Factors (pages 14 – 23) |
| _____ | 3. Feeding Factors (pages 24 – 39) |
| _____ | 4. Forage Species for Pastures and Hay (pages 40 – 46) |
| _____ | 5. Plant Identification (pages 47 – 87) |
| _____ | 6. Diseases Related to Nutrition (pages 88 – 91) |

Step 2: Things to Do

Within each of the Interest Areas, place a check mark next to the two (2) activities you plan to do. Activities may be added or changed at any time. Have your parent or advisor initial and date what you complete. Place completed activities in your project notebook.

1. Animal Factors

- Conduct a body scoring analysis on three horses.
- Compare and contrast the diets of three horses at different ages and activity levels.
- Attend county fairs, breed shows, or sales to observe feeds and compare at least 2 different feeds and the condition of the horses eating these feeds.
- Identify parts of the digestive system. Draw the digestive system and label parts or visit a veterinarian as he/she posts a horse; photograph digestive system and label parts.
- Visit a veterinarian as he/she posts a horse and observe or take samples of feed from each part of the digestive system (stomach, small intestine, cecum, and colon).
- Tour each project member's home to observe his/her animals and discuss feeding.

2. Diet Factors

- Describe the six basic nutrients and the function of each.
- Visit farms or The Ohio State University Veterinary Clinic, etc., and observe horses with specific nutrient deficiencies. Note characteristics of these animals as opposed to normal animals with no nutrient deficiencies.
- Collect and properly identify at least 5 roughages.
- Using small jars, collect and label at least 10 concentrates used in making rations.
- Compare the value of feed additives; which are most cost effective when added to the ration.

- Discuss feed additives with a feed store representative.
 - Conduct a club meeting on "Identifying Feedstuffs" for your fellow members.
 - Develop a cost comparison of various feed stuffs.

3. Feed Factors

- Keep records of the kind and amount of feed your horse(s) receive for 4 months. Note feed changes and visual changes in your horse.
- Visit a large horse farm or trainer's facilities to observe and discuss feed programs.
- Develop a 2-year feeding calendar for a 3-year-old mare about to be bred.
- Visit with a feed salesman and discuss common feed rations.
- Compare labels from commercial feeds.
- Formulate 2 rations.
- Use a computer to develop a least-cost balance ration for your horses.
- Use and evaluate 3 different commercial feeds.
- Have a feed sample analyzed.
- Develop a ration for bred mares.
- Develop a ration for aged stallions during breeding season.

4. Forage Species for Pastures and Hay

- Evaluate your hay quality.
- Take a soil test from your pasture or a nearby one and have it analyzed.
- Have a hay sample analyzed.
- Compare the nutrient quality of various roughages.

- Determine the rental value of your pasture or a nearby pasture.

5. Plant Identification

- Collect and identify at least 3 grass plants.
- Collect and identify at least 3 legume plants.
- Collect and identify at least 10 of the most common weeds found in hayfields and pastures in Ohio.
- Collect and identify at least 3 poisonous plants.
- Collect and identify at least 2 poisonous substances.

- Scan your pastures and barnyard area for poisonous substances.

6. Diseases related to Nutrition

- Visit a veterinarian or horse farm to learn to observe changes in a horse's vital signs.
- Study common digestive problems or malfunctions that occur in the horse.
- Make a chart of things you can do to prevent digestive disorders in your horse.
- Ask a veterinarian to speak to your club regarding common digestive problems and their treatment.

Step 3: Learning Experiences

Take part in at least two (2) of the sample Learning Experiences listed below. Plan your involvement in the chart (Report of Learning Experiences) provided. Before starting your project, enter your two (2) choices in the section labeled “Plan to Take Part In.” Then, once you have taken part in an activity record what you did and when. Learning Experiences may be added or changed at any time.

Sample Learning Experiences

Demonstration	Speech	County Fair Judging	Farm Tour
Illustrated Talk	Exhibit	Production Show	Horse Camp
Project Meetings	Judging Team	Radio/TV Presentation	Field Trip

Report of Learning Experiences

Plan to Take Part In	What I Did	Date Completed
(Example) Demonstration	Gave presentation to 4-H club on the parts and function of the digestive system.	4/21

Step 4: Leadership/Citizenship Activities

Plan to do at least two (2) Leadership/Citizenship activities. Keep track of your progress by dating (mo./yr.) what you completed. Leadership/Citizenship activities may be added or changed at any time.

- _____ Teach your club something about horse nutrition.
- _____ Encourage someone to join your club.
- _____ Help someone decide which horse project to take.
- _____ Arrange for your club to go on a tour.
- _____ Have someone visit your club and speak about horses.
- _____ Serve as a club officer.
- _____ Help coach or assist with a Horse Bowl, Horse Judging, or Hippology Team.
- _____ Help someone with his/her horse project.
- _____ Help organize or conduct a horse nutrition clinic.
- _____ Help at a 4-H horse show.
- _____ Write a news story about your club.
- _____ Get sponsors for a 4-H horse show.
- _____ Teach younger members riding skills at a club workout.

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.