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 of these activities in a notebook.

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

General Guidelines

   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:
   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.

<table>
<thead>
<tr>
<th>Date Started (mo./yr.)</th>
<th>Interest Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>__________</td>
<td>1. Animal Factors (pages 4-13)</td>
</tr>
<tr>
<td>__________</td>
<td>2. Diet Factors (pages 14 – 23)</td>
</tr>
<tr>
<td>__________</td>
<td>3. Feeding Factors (pages 24 – 39)</td>
</tr>
<tr>
<td>__________</td>
<td>4. Forage Species for Pastures and Hay (pages 40 – 46)</td>
</tr>
<tr>
<td>__________</td>
<td>5. Plant Identification (pages 47 – 87)</td>
</tr>
<tr>
<td>__________</td>
<td>6. Diseases Related to Nutrition (pages 88 – 91)</td>
</tr>
</tbody>
</table>
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 difference 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

<table>
<thead>
<tr>
<th>Demonstration</th>
<th>Speech</th>
<th>County Fair Judging</th>
<th>Farm Tour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illustrated Talk</td>
<td>Exhibit</td>
<td>Production Show</td>
<td>Horse Camp</td>
</tr>
<tr>
<td>Project Meetings</td>
<td>Judging Team</td>
<td>Radio/TV Presentation</td>
<td>Field Trip</td>
</tr>
</tbody>
</table>

Report of Learning Experiences

<table>
<thead>
<tr>
<th>Plan to Take Part In</th>
<th>What I Did</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Example) Demonstration</td>
<td>Gave presentation to 4-H club on the parts and function of the digestive system.</td>
<td>4/21</td>
</tr>
</tbody>
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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.

Tuscarawas Country 4-H Guidelines – 762 Horse Nutrition
Revised November 2014