

## Equine Reproduction and Genetics Project Book Guidelines 4-H 185

As an Advisor, Parent, Project Helper or Judge this list will be useful in ensuring each member finishes required records and book work and prepares the child for judging, and culminates in being able to show at the Logan County Fair. This project is for the Advance Level Member of at least 14 years of age to 18 years of age.

As a first year member in this Equine Reproduction and Genetics project the following books will be necessary to complete the project and will then be used for all of the levels listed above. **Equine Reproduction and Genetics Project & Record Book 4-H 185, Uniform Rules for 4-H Horse Show 4-H 179, & Equine Record Book 4-H 190R. Horses, Safety and You 4-H 191R is also a required reference for all levels of Horse Projects. Books can be used multiple years with added inserts for repeatable activities.** (These books can be purchased at the Logan County Extension Office, 1100 South Detroit St. Bellefontaine, OH 43311. Phone: 937-599-4227

**Equine Reproduction and Genetics Project Books can be used multiple years with added inserts for repeatable activities; however Equine Record Books must be bought each year per project animal. \***

The following guidelines are for what they need to have to complete their project books and be prepared for the interview process and end with culmination of the fair.

Animal or animals needs to be in your possession by the following date:

\_\_\_\_\_

**Attend a Mandatory Equine Education Program:** (only need to attend one)

Available Dates are: \_\_\_\_\_

**\* Anything that is marked with a ✓ is mandatory to be done.\***

**\* If project is taken more than once different activities should be completed from previous project years.\***

**The following are the specific requirements for the Equine Reproduction and Genetics Book**

**Objectives from the National 4-H Council (Pg. 6) Read  
Member Project Guide (Pgs. 7-20) (Read and Plan your project activities for  
the year)**

**Planning Your Project (Pg. 8) Steps 1-4**



**Step 1 & 2:**

- **Step 1: Interest Areas** (Explore all 3 before picking your 1 interest area to complete for this project year) **Document Start Date**
  - **Equine Breeding Principles** (Pgs. 21-45)
  - **Mare and Foal Management** (Pgs. 45-55)
  - **Genetics** (Pgs. 56-70)

**Step 2 Part One****Things To Do**

**Have Parents/Helpers or Advisors Initial & Date when completed**

- Select **3** activities within the 1 Interest area you chose for this project year and each consecutive year this book is used. **The activities are listed as Lessons within each area.**
- There are required activities in each section remember to add those into the 3 that you choose for your project year.

**Step 2 part Two****Interest Area One: Equine Breeding Principles**

- **Lesson One: Mares Estrous Cycle & Hormonal Control** (Pgs. 21-26) 2 activities required pick one more, Complete and Date.
- **Lesson Two: Stallion's Reproductive Anatomy, Sperm Reproduction, and Evaluation** (Pgs. 26-32) 2 activities required pick one more, Complete and Date.
- **Lesson Three: Breeding Procedures: Artificial Insemination (AI), Teasing, Sanitation and Handling, and Safety** (Pgs. 32-44) 3 activities required, but you can pick more. Complete and Date
- **Lesson Four: Reproductive Cultures, Biopsies, and Breeding Problems** (Pgs. 40-43) 1 activity required pick 2 more, Complete and Date.
- **Lesson Five: Breeding Contracts** (Pgs. 44&45) 1 activity required. **Only one is required for this Lesson.** Complete and Date.

**Interest Area Two: Mare & Foal Management**

- **Lesson One: Foaling Management** (Pgs. 45-49) 2 activities required pick one more, Complete and Date.
- **Lesson Two: Post Foaling Management** (Pgs. 49-55) 3 activities required, we suggest that you pick one additional activity.

### Interest Area Three: Genetics

- **Lesson One: Qualitative and Quantitative Inheritance** (Pgs. 56-60) 1 activity required pick 2 more, Complete and Date.
- **Lesson Two: Breeding Systems, Records, Pedigrees** (Pgs. 60-66) 1 Required activity pick 2 more, Complete and Date
- **Lesson Three: Coat Color Inheritance** (Pgs. 67-70) 1 Required Activity pick 2 more, Complete and Date.

#### APPENDICES

**A: Dimensions for the Breeding Phantom** (Pg. 71)

**B: Plans for a Portable Palpation Chute** (Pg. 72 & 73)

**C: Some Equine Reproduction Equipment Suppliers** (Pg. 74)

#### Step 3

##### Learning Experiences

- Plan on 3 Learning Experiences from the samples listed on page 17.
- List options in section Plan to Take Part In (Pg. 18)
- Once completed date and initial (Pg.18)

#### Step 4

##### Leadership/Citizenship Activities

- Plan on at least 3 using the sample list (Pgs. 19-20)
- You can also plan something of your own and document (Pgs. 19&20)
- Mark what you want to do, Date and Initial when completed. (Pgs. 19 & 20)
- Keep a diary or scrapbook of all your activities and things that you do during the scope of this project year.

Project Review with Parents and Advisors: Parent Initial \_\_\_\_\_ Advisor Initials \_\_\_\_\_

- County Interview Date: \_\_\_\_\_
- County Judging Date: \_\_\_\_\_
- County Fair Date: \_\_\_\_\_

**Congratulations you have finished your Equine Reproduction and Genetics Book for the year! We hope you enjoyed this and we can't wait to see you next year! Good Luck at the Fair!**

**Don't forget to complete Equine Record Book 4-H 190 R along with this project book. Here is a separate checklist for that project book also.**

**Equine Record Book 4-H 190 R****The following are the specific requirements for the Equine Record Book 4-H 190R.**

**Front cover:** Complete

**Why Keep Records:** (Pg.3) Read

**Youth Parent/Guardian Agreement** (Pg. 4) Read, complete and Initial by Parent or Guardian.

**Goals and Accomplishments for this Project** (Pg. 5) Explore the 9 supplied. Choose and complete at least 5.

**\*Inventory of Equipment and Supplies** (Pg. 6)\* This is optional for members aged 9-13.  
**Complete**

**\*Projected Cost of Keeping your horse(s) for one year-Making a budget** (Pg. 7)

\* This is optional for members aged 9-13.

**Complete**

**Project Pictures** (Pgs. 8 & 10) Complete one for each project animal.

**Horse Identification Form** (Pgs. 9 & 11) Complete one for each project animal.

**Treatment Record** (Pgs. 12 & 13) Complete one for each project animal, can insert another paper.

**Hoof Care Record** (Pg. 14) Add additional pages if needed

**Operating Expenses other than feed.** (Pg. 15) Add additional pages if needed

**Feed Expense Record** (Pg. 16) Add additional pages if necessary.

**Riding/Training Record** (Pgs.17 & 18)

**Award/Income Record** (Pg.

19) **Total yearly Cost** (Pg. 20)

**Project Review** (Pg. 21)

**Animal Nutrition** (Pg. 22)