

## MODEL TRACTOR PULL

PROJECT SUPERINTENDENT:	Nathan Newby, 317-833-9405, natenewby1984@gmail.com
EXHIBIT CHECK-IN:	Notebooks Sunday, July 13, 4-6 PM
	Model Tractor Monday, July 21, 9 AM
JUDGING:	Notebooks Monday, July 14, 8:30 AM, Closed Judging
	Model Tractor Monday, July 21, 9:30 AM, Open Judging
RELEASE:	Immediately following judging
STATE FAIR ENTRIES:	No entries, County project only

**Project Description:** This is an engineering and design project in which you will start with a die-cast 1/16<sup>th</sup> scale toy tractor and add an electric motor, gearbox and rubber tires to create a scale size pulling tractor. All members must complete at least one (1) year in the beginner (electric) and one (1) year in the intermediate (electric) class before being able to exhibit in the advanced division **regardless of your grade in school**. For example: All first-year members must exhibit as beginners (electric) regardless of grade. Second year members in grades 6-8 will exhibit as intermediates. The earliest you may exhibit in the advanced division is your third year in the project **regardless of your grade in school**. Champion placings will be awarded in all three (3) divisions with two Grand Champions being awarded. One Grand Champion will be awarded in the beginner division and one Grand Champion will be awarded to the winner of the Intermediate/Advanced Divisions. All posters, notebooks, and display boards must include a reference list indicating where information was obtained, giving credit to original author.

### Levels:

<b>Beginner</b>	<b>Grades 3-5</b>
<b>Intermediate</b>	<b>Grades 6-8</b>
<b>Advanced</b>	<b>Grades 9-12</b>

### Project Guidelines:

- Use a General Record Sheet.
- Projects will be judged as follows:
  - 25% on Static Model and Project Binder.
  - 75% on placing in the tractor pull at the Hamilton County 4-H fair.

### Exhibit Guidelines:

- For all divisions a project binder with your completed general record sheet and pictures/information about your tractor will be on display at the 4-H fair. The binder should include correct photos of your tractor along with captions explaining photos/engineering concepts. Photos of the completed tractor at the TEST pull will also be needed for maximum binder points.
- Check-in for this will be on Sunday, July 13, 2025.
- Binders will be judged with placings awarded prior to the tractor pull.
- On the day of the pull you will be expected to bring your completed tractor for a tech inspection and check prior to the pull.

## **Exhibit Class Guidelines:**

**Beginner-** Exhibit one (1) 1/16<sup>th</sup> scale metal model tractor with restricted gear ratio and electric motor which will be purchased from the project superintendent. The tractor will pull in the 4 lb. & 5 lb. weight classes. See project manual for additional requirements. Turn in completed general record sheet for judging with project binder.

**Intermediate-** Exhibit one (1) 1/16<sup>th</sup> scale metal or molded plastic model tractor with restricted gear ratio and electric motor from project superintendent. The tractor will pull in the 4 lb. & 5 lb weight classes and can use advanced materials to reduce weight. See project manual for additional requirements. Turn in completed general record sheet for judging with project binder.

**Advanced-** Exhibit one (1) 1/16<sup>th</sup> scale model tractor with electric motor, unrestricted gear ratio and using advanced materials to reduce weight and add strength. The tractor will pull in the 3 lb. & 5 lb. weight classes. See project manual for additional requirements. Turn in completed general record sheet for judging with project binder. Exhibitors in the advanced division will be allowed to enter up to two (2) tractors in order to post a placing in both the 3 lb. & 5 lb. weight classes for Grand Champion consideration if they so choose but are only required to enter one (1) tractor. Only one (1) entry per class per exhibitor is allowed. This will generally apply to those entering a tractor in the 5 lb. Super Stock class and a different tractor in 3 lb. Pro-Stock class.