



2024

AGRICULTURE MECHANICS RULES

DIRECTORS:

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Registration: January 16, 2024 at the JB Wells Office from 5:00 pm to 6:00 pm.
Entry Fees: \$15 per project entry; \$10 one-time/year GCYSA member fee per exhibitor

Purpose of the Agricultural Mechanics Project Show

- To provide an opportunity for 4-H and FFA members to display projects constructed in agricultural mechanics labs and/or at home under the supervision of an agriculture science teacher or county extension agent.
- To promote the development of skills in agricultural mechanics through competition.
- To recognize individual and group accomplishments in the area of agricultural mechanics.
- To provide an opportunity for public appreciation of this important phase of 4- H and FFA Youth Programs.

Special Rules for Agricultural Mechanics Project Show

1. **Eligible Entries:** Entries in this division are limited to Gonzales County FFA and 4-H members. Projects exhibited must have been constructed by FFA and 4-H members, either as a part of their agricultural mechanics instruction in agricultural science or as a part of their supervised work experience program.
2. **Ownership:** Projects may have been individually or group-constructed and may be individually or chapter/club owned.
3. **Club Entries:** Entries made in the name of FFA Chapters or 4-H Clubs are not eligible. All projects must be entered in the names of the exhibitors who participated in planning and construction of the project.
4. **Ineligible Projects:** Any project that does not fit into one of the stated classes will be disqualified by the superintendent.
5. **Construction Date:** Projects must have been constructed within one calendar year of the exhibition date (March 2023 - February 2024).
6. **Project Presentation:** All projects must be painted or properly treated and must be clean and in a presentable condition even though they may have been used. Trailers and all other equipment are to be displayed in transport positions. Ramps, extension and operation of specific features may be demonstrated only as directed by the official judges and as space permits.
7. **Documentation:** An original (exhibitor produced) plan or drawing, a bill of materials, and photographs showing phases of construction and demonstration of safety practices are to be provided with all projects. Display of plans, photos, etc. must be done in such a manner that no additional floor space is required. Stands, podiums, computers, etc. will be permitted only when space is permitted and they can be positioned on, under, or in front of the project.
8. **Project Safety:** Appropriate and safe display stands must be provided for gates, panels, and other projects that need support. Sharp edges and points, such as found on self-feeder roofs, bale movers,

etc.,are to be padded or covered as necessary to prevent injury. All trailers and other equipment that will be operated and/ or transported on public roads are to be equipped with the safety equipment specified in Title 7, Vehicles and Traffic Transportation Code of Texas Statues. All towed equipment, regardless of standards, is to be equipped with safety chains. All three-point hitch and P.T.O. operated equipment is to meet current ASAE standards and specifications.

9. **Electrical Safety:** All 120 VAC and higher electrical plugs and receptacles are to be the equipment grounding type. All metal components are to be grounded. Ground fault circuit interrupters (GFIC) shall be provided for all 120 VAC receptacles. All 50 VAC and higher connections are to be protected in appropriate indoor or outdoor rated enclosures.
10. **Projects with Engines:** There is to be no more than two gallons of fuel in any fuel tank. The fuel tank cap is to be in place and sealed with tape. The battery is to be disconnected. This applies to all engines in the exhibit area.
11. **Vehicles:** Tractors, trucks, or other vehicles (including non- entered trailers) are not allowed in the exhibit area as part of the display. Projects that cannot be reasonably unloaded and placed in the exhibit area, may be left on transport trailers or vehicles and located as close to the exhibit area as possible.
12. **Signs:** All projects are to be identified with standard club exhibitor cards. Exhibit cards and project judging cards should be attached in a visible location on the front of the project with clear carton sealing tape or zip tie.
13. **Judging System:** Projects will be judged on:

Workmanship	30
Design and Materials Used	20
Practicality	20
Degree of Difficulty	10
Finish	10
Plans, Bill of Materials, Photos	10

Blue Ribbon: 90-100 Points

Red Ribbon: 80-89 Points

White Ribbon: 70-79 points

Restoration Project Guidelines

Judging Criteria

1. Aesthetics: 20 Points

- a. Overall appearance of the project, including workmanship and finish. Items that will be considered include, but are not limited to, the following:
 1. Metal preparation prior to painting
 2. Completeness of all sheet metal
 3. Painting and finish
 4. Detail and completeness of components
 - a. Steering wheels
 - b. Seats
 - c. Decals
 - d. Instrument panels
 - e. Wiring harness, etc.

2. Authenticity: 10 Points

- a. Must be as original as possible. To include:
 - i. Paint color, fasteners, and other components such as magnetos, carburetors, exhaust systems
 - ii. Mechanical systems, fuel, electrical, engine, transmission, final drive, cooling, etc.
 - iii. Serial plates in place with unaltered serial numbers

3. Mechanical: 40 Points

- a. To include the mechanical restoration of all systems including: (Note: some projects may not have all systems.)
 - i. Engine, transmission, and final drive systems
 - ii. Fuel, cooling, ignition, lighting, exhaust, charging, starting, hydraulic and steering systems
 - iii. Note: Exhibitors may be asked to start the tractor/project and drive it, demonstrating all systems (hydraulics, lights, brakes, etc.).

4. Safety Equipment: 5 Points

- a. All equipment that was original to the tractor/project should be in place (includes all shields and decals). Tractor/project must be in safe operating condition. To exhibit a tractor/project, the following safety considerations must be followed:
 - i. No more than 5 gallons of fuel in the fuel tank.
 - ii. Neat and functional drip pans are required to collect any coolant, oil, or hydraulics that may drip from the tractor/project.
 - iii. Fuel shut-off valves under all fuel tanks must be functional, and all tractors/projects must be exhibited with these valves off.
 - iv. Tractors/projects may be started anytime at the request of show officials.

5. Documentation: 15 Points

- a. Documentation must be typed (recommend word processor or spreadsheet) and must include the following: (Note: The National FFA Tractor Restoration Competition documentation format may be used.)

- i. A one-page description of the overall restoration project
- ii. An expense report identifying all costs involved in the restoration
- iii. Photos (before, during, after) -- **Safe working environments should be depicted in all photos.**
- iv. A mechanic's report detailing all mechanical work performed
- v. All documentation is to be arranged in a three-ring notebook that is divided and sequenced. The notebook should include a table of contents and page number

6. Oral Review: 10 Points

- a. Judges will ask questions to determine the exhibitor/exhibitor('s') knowledge of and involvement in the restoration.

Agriculture Mechanics Show Divisions, Classes, and Awards

1. Agriculture Mechanics Division

- a. Senior (Grades 9-12) Grand Champion: Prize
- b. Senior (Grades 9-12) Reserve Champion: Prize
- c. Junior (Grades 3-8) Grand Champion: Prize
- d. Junior (Grades 3-8) Reserve Champion: Prize
 - i. **Agriculture Mechanics Classes (Class Winners will Receive a Special Ribbon):**
 - 1. **AGRICULTURAL MACHINERY AND EQUIPMENT**
 - a. Examples: Hay handling equipment, spraying equipment, mounted and pull- type tractor equipment, hydraulic equipment, shop equipment, truck, tractor and agriculture equipment accessories
 - 2. **HOME AND RECREATIONAL USE**
 - a. Examples: Bar-B-Q pits, picnic tables, greenhouses, birdhouses, arts and crafts, other recreational and/or convenience-type projects
 - 3. **LIVESTOCK & POULTRY EQUIPMENT**
 - a. Examples: Gates and livestock panels, squeeze chutes and restraining equipment, trim chutes, blocking stands, livestock crates, head gates, feeders, self-feeders, creep feeders, chicken coops, cages, and nesting boxes
 - 4. **TRAILER**
 - a. Examples: utility trailers, non- traditional utility and implement trailers, multi-bale trailers, Gooseneck lowboy utility and implement trailers, Gooseneck flatbed utility and implement trailers, Gooseneck stock trailers, other trailers (welder trailers, dump trailers, special purpose, etc.).

2. Restoration Division

- a. Overall Grand Champion: Prize
- b. Overall Reserve Champion: Prize
 - i. **Restoration Classes (Class Winners will Receive a Special Ribbon)**
 - 1. **TRACTORS**
 - a. Examples: all tractors 1974 and older, yard tractors or riding lawn mowers are included. Tractor Serial Number must be included with Description on Entry Form
 - 2. **IMPLEMENTS**
 - a. Examples: mowers, harvesting equipment, plowing equipment, discing equipment, planters, hauling equipment, horse-drawn equipment (buckboards, wagons, etc.) are also included in this division.

Agriculture Mechanics Sale Information

1. For the GCYSA Agriculture Mechanics Show, exhibitors will choose whether or not to sell their projects.
2. Exhibitors must indicate and post if the project will be for sale.
3. Exhibitors may only sell one agriculture mechanics project in the commodity sale.
4. Agriculture Mechanics projects will be sold as **commodity items**.
5. Since the sale is a commodity sale, no add-ons will be allowed.
6. There will be a 3% commission fee on the sale of items.