

MINNESOTA STATE FAIR

Aug. 22-Sept. 2, 2024

FFA Agriculture Technology

Superintendent..... T. J. Brown, Good Thunder, MN
Assistant Superintendent..... Nick Milbrandt, Elmore, MN
Board Member, 6th District..... Kirk Peysar, Aitkin, MN

FFA Agriculture Technology Rules.

1. Exhibits from individual students, groups, classes or FFA chapters.
 - A. **Eligibility.** Open to Minnesota students, grades 7-12, who are currently enrolled in an agricultural education program during the 2023-2024 school years, and who are active members of a FFA chapter in good standing with the state FFA association.
 1. FFA members enrolled in new or reestablished programs are not eligible to exhibit until the fair following the first academic year of operation.
 2. Exhibitors who have not graduated from high school must have been enrolled in at least one agriculture class during the current year.
 3. Must be current, paid member in good standing of the State FFA and National FFA.
 4. Exhibits must have been completed since the close of the previous year's Minnesota State Fair.
2. A committee will evaluate projects to determine if they are the type, kind and quality to be representative of agricultural technology.
3. **Entries.** Entries close Friday, Aug. 9, 2024, at 4:30 p.m.
 - A. **All exhibits must be registered online; no unregistered exhibits will be accepted at the door.** One entry per individual per class.
 - B. Entries must be made by the FFA advisor.
4. **Exhibit delivery.** Exhibits should be brought to the Agriculture Horticulture Building on the delivery dates and times indicated.
 - A. **Delivery dates and times.** Monday, Aug. 12, 2024, from 8 a.m. to 4 p.m. and Tuesday, Aug. 13, 2024, from 8-10 a.m.
 1. Exhibits to be brought to the Agriculture Horticulture Building. Very large projects MUST be approved before registration; contact Nick Milbrandt at nmilbrandt25@beas.blueearth.k12.mn.us for assistance.
 2. Please contact Nick Milbrandt if your county fair conflicts with delivery dates and times.
 - B. **Exhibits may not be dropped off at any other time**, unless prior arrangements have been made for staff from FFA Agriculture Technology to be present to accept exhibits.
 1. Only FFA Agriculture Technology staff (and volunteers approved by FFA Ag-Tech staff) may accept FFA Agriculture Technology exhibits.
5. **Identification.**
 - A. **Exhibit tags.** Will include the following information: class description, student name, student grade and FFA chapter name.
 1. Tags will be mailed to the address of the advisor who registered the entries.
 2. For entries registered within 10 days of entry deadline, tags will be held and attached at entry delivery.
6. **Judging.** In classes where entries exceed 10, classes may be split at the discretion of the superintendent.
 - A. After judging, entries will be selected for display.
 - B. Points are calculated on: quality of workmanship, design, fabrication, finish and overall appearance, functionalism, selection of materials, and safety.
7. **Removal of exhibits.** Wednesday, Sept. 4, 2024, from 3-6 p.m. and Saturday, Sept. 7, 2024, from 10 a.m. to 1 p.m.
 - A. Appointments for exhibit removal for dates/times other than above must be made by contacting the competition department at 651-288-4417.

Division A: Ag Literacy - Leadership

Leadership

1. **Exhibits.** Include education materials, science display or projects relating to Leadership.
 - A. Educational materials defined as projects or displays allowing individuals to read, learn, and understand a concept or standard.
 1. Term papers and reports are not included in educational materials.
 - B. Must be student made, and reflecting an activity carried out in any Leadership subject area. May be the work of an individual student, or a group of two or more students.
 - C. Working models, graphic, or three dimensional presentations.
 - D. Exhibits should be mounted on plywood, masonite or other sturdy material for display.
 - E. **Judging.**
 1. Basis for judging design and functionalism will be the effectiveness of the project or teaching aid in illustrating or clarifying a principle or idea.
 2. Special consideration given to workmanship and suitability for public display in judging.
 3. Exhibits determined to NOT be related to Leadership will not be judged.

Premiums for Ag Literacy - Leadership

Divisions A-F (except champions)

\$13 \$10 \$8 \$6 \$3

Class Listing for Ag Literacy - Leadership

Leadership

- 1 Educational Materials, Individual, Grade 7-9
 - 2 Educational Materials, Individual, Grade 10-12
 - 3 Educational Materials, Group
Two or more individuals.
-
- 15 Champion; Leadership

Division B: Ag Literacy - Power, Structures & Technical

Power, Structures and Technical Systems

1. **Exhibits.** Include education materials, science display or science fair projects relating to Power, Structures and Technical Systems.
 - A. Educational materials defined as projects or displays allowing individuals to read, learn, and understand a concept or standard.
 1. Term papers and reports are not included in educational materials.
 - B. Must be student made, and reflecting an activity carried out in any Power, Structures and Technical Systems subject area. May be the work of an individual student, or a group of two or more students.
 - C. Working models, graphic, or three dimensional presentations.
 - D. Exhibits should be mounted on plywood, masonite or other sturdy material for display.
 - E. **Judging.**
 1. Basis for judging design and functionalism will be the effectiveness of the project or teaching aid in illustrating or clarifying a principle or idea.
 2. Special consideration given to workmanship and suitability for public display in judging.
 3. Exhibits determined to NOT be related to Power, Structures and Technical Systems will not be judged.

Premiums for Ag Literacy - Power, Structures & Technical Systems

Divisions A-F (except champions)

\$13 \$10 \$8 \$6 \$3

Class Listing for Ag Literacy - Power, Structures & Technical Systems

Power, Structures & Technical Systems

- 1 Educational Materials, Individual, Grade 7-9
 - 2 Educational Materials, Individual, Grade 10-12
 - 3 Educational Materials, Group
Two or more individuals.
-
- 15 Champion; Power, Structures & Technical Systems

Division C: Ag Literacy - Natural Resource & Environmental

Natural Resource and Environmental Systems

1. **Exhibits.** Include education materials, science display or science fair projects relating to Natural Resource and Environmental Systems.
 - A. Educational materials defined as projects or displays allowing individuals to read, learn, and understand a concept or standard.
 1. Term papers and reports are not included in educational materials.
 - B. Must be student made, and reflecting an activity carried out in any Natural Resource and Environmental Systems subject area. May be the work of an individual student, or a group of two or more students.
 - C. Working models, graphic, or three dimensional presentations.
 - D. Exhibits should be mounted on plywood, masonite or other sturdy material for display.
 - E. **Judging.**
 1. Basis for judging design and functionalism will be the effectiveness of the project or teaching aid in illustrating or clarifying a principle or idea.
 2. Special consideration given to workmanship and suitability for public display in judging.
 3. Exhibits determined to NOT be related to Natural Resource and Environmental Systems will not be judged.

Premiums for Ag Literacy - Natural Resource & Environmental Systems

Divisions A-F (except champions)

\$13 \$10 \$8 \$6 \$3

Class Listing for Ag Literacy - Natural Resource & Environmental Systems

Natural Resource & Environmental Systems

- 1 Educational Materials, Individual, Grade 7-9
 - 2 Educational Materials, Individual, Grade 10-12
 - 3 Educational Materials, Group
Two or more individuals.
-
- 15 Champion; Natural Resource & Environmental Systems

Division D: Ag Literacy - Animal Systems

Animal Systems

1. **Exhibits.** Include education materials, science display or science fair projects relating to Animal Systems.
 - A. Educational materials defined as projects or displays allowing individuals to read, learn, and understand a concept or standard.
 1. Term papers and reports are not included in educational materials.
 - B. Must be student made, and reflecting an activity carried out in any Animal Systems subject area. May be the work of an individual student, or a group of two or more students.
 - C. Working models, graphic, or three dimensional presentations.
 - D. Exhibits should be mounted on plywood, masonite or other sturdy material for display.
 - E. **Judging.**
 1. Basis for judging design and functionalism will be the effectiveness of the project or teaching aid in illustrating or clarifying a principle or idea.
 2. Special consideration given to workmanship and suitability for public display in judging.
 3. Exhibits determined to NOT be related to Animal Systems will not be judged.

Premiums for Ag Literacy - Animal Systems

Divisions A-F (except champions)

\$13 \$10 \$8 \$6 \$3

Class Listing for Ag Literacy - Animal Systems

Animal Sciences

- 1 Educational Materials, Individual, Grade 7-9
 - 2 Educational Materials, Individual, Grade 10-12
 - 3 Educational Materials, Group
Two or more individuals.
-
- 15 Champion; Animal Systems

Division E: Ag Literacy - Plant Systems

Plant Systems

1. **Exhibits.** Include education materials, science display or science fair projects relating to Plant Systems.
 - A. Educational materials defined as projects or displays allowing individuals to read, learn, and understand a concept or standard.
 1. Term papers and reports are not included in educational materials.
 - B. Must be student made, and reflecting an activity carried out in any Plant Systems subject area. May be the work of an individual student, or a group of two or more students.
 - C. Working models, graphic, or three dimensional presentations.
 - D. Exhibits should be mounted on plywood, masonite or other sturdy material for display.
 - E. **Judging.**
 1. Basis for judging design and functionalism will be the effectiveness of the project or teaching aid in illustrating or clarifying a principle or idea.
 2. Special consideration given to workmanship and suitability for public display in judging.
 3. Exhibits determined to NOT be related to Plant Systems will not be judged.

Premiums for Ag Literacy - Plant Systems

Divisions A-F (except champions)

\$13 \$10 \$8 \$6 \$3

Grand & Reserve Champions

\$0 \$0

Class Listing for Ag Literacy - Plant Systems

Plant Sciences

- 1 Educational Materials, Individual, Grade 7-9
 - 2 Educational Materials, Individual, Grade 10-12
 - 3 Educational Materials, Group
Two or more individuals.
-
- 15 Champion; Plant Systems
 - 20 Grand and Reserve Champion (divisions A-E)

Division F: Ag Mech - Directed Activities

Directed Activities

1. **Exhibits.** Reflect introductory learning experiences, which develop skills that will be transferred to advanced project construction.
 - A. Must be the work of an individual student.
 - B. Must have an appropriate finish, and display quality workmanship.

Premiums for Ag Mech - Directed Activities

Divisions A-F (except champions)

\$13 \$10 \$8 \$6 \$3

Grand & Reserve Champions

\$0 \$0

Class Listing for Ag Mech - Directed Activities

Introductory Wood

- 1 Introductory wood project
 - 2 Nesting box
 - 3 Tool box
 - 4 Bird House
 - 5 Nail or tool carrier
 - 6 Plant stand
 - 7 Bird feeder
 - 8 Wood shelf
 - 9 Champion; Directed Activities, Introductory Wood
-

Intermediate Wood

- 10 Sawhorse
 - 11 Wood duck house
 - 12 Feeder
Pheasant, deer, livestock.
 - 13 House, other
 - 14 Plant stand
 - 15 Tray or folding table
 - 16 Miscellaneous wood project
 - 17 Lawn or garden furniture
 - 18 Table
Picnic, lawn or garden.
 - 19 Finished furniture stand without drawer
 - 20 Finished furniture table
 - 21 Finished furniture stand with drawer
 - 22 Champion; Directed Activities, Intermediate Wood
-

Introductory Metal

- 26 Miscellaneous metal project
- 27 Laser design project
- 28 C-clamp
- 29 Hitch pins, chisels and punches

30 Eye bolt, nut and bolt

Using tap and die.

31 Sheet metal project

32 Drill bit gauge

33 Metal stand or chair

34 Metal tool box

35 Champion; Directed Activities, Introductory Metal

Intermediate Metal

45 Welded shop stand

46 Adjustable work stand

47 Safety stand

48 Implement ramps

49 Portable light extension cord

50 Shop stool or chair

51 Two-wheel utility cart

52 Shop or fence specialty puller

53 Garden arbor

54 Mail box or landscape post

55 Tool gauge

56 Tool box

57 Shop work bench

58 Fire pit / tools

59 Miscellaneous metal project

60 Metal display sign

61 Welded art

62 Champion; Directed Activities, Intermediate Metal

Natural Resources & Outdoor Environment Projects

70 Forestry and natural resources, metal

71 Forestry and natural resources, wood

72 Fishing rod

73 Ice fishing rod

74 Wildlife feeder

75 Antler mount

76 Tree stand

77 Gun rack / cabinet

78 Champion; Directed Activities, Natural Resources & Outdoor Environment Projects

Advanced Construction

80 Special wood project

With agricultural application.

81 Special metal project

With agricultural application.

- 82 Special concrete project
With agricultural application.
- 83 Special electronics project
With agricultural application.
- 84 Special hydraulics project
With agricultural application.
- 85 Patio deck furniture, wood
- 86 Patio deck furniture, metal
- 87 Miscellaneous advanced project
- 88 3D printed project
- 89 3D model/part(s)

- 90 Champion; Directed Activities, Advanced Construction
- 92 Grand and Reserve Champion (division F)
- 93 Grand Prize - Acme Tool
Acme Tool will present a grand prize of drill / driver set.

Division G: Ag Mech - Large Construction Project

Large Construction Project

1. **Exhibits.** Entries in this division are projects too large or expensive to transport and display. No small projects.
 - A. Exhibits will consist of plans, pictures, and an explanatory informational paragraph of the project.
 - B. Exhibits should be mounted on tagboard for display.
 - C. **Judging.** Judged on uniqueness of design, utility, and workmanship.

Premiums for Ag Mech - Large Construction Project

Divisions G-I (except champions and restored tractors)

\$30 \$24 \$20 \$15 \$10

Class Listing for Ag Mech - Large Construction Project

Large Construction Project

- 1 Permanent agricultural building
- 2 Portable agricultural building
- 3 Large projects primarily of wood, wood planter box
- 4 Large projects primarily of metal, portable welding table
- 5 Large energy conservation project, portable light stand
- 6 Mechanization using sensing controls
- 7 Champion; Large Construction Project

Division H: Ag Mech - Misc Ag & Home Equipment

Premiums for Ag Mech - Misc Ag & Home Equipment

Divisions G-I (except champions and restored tractors)

\$30 \$24 \$20 \$15 \$10

Class Listing for Ag Mech - Misc Ag & Home Equipment

Miscellaneous Agricultural & Home Equipment Construction

- 1 Designed Adirondack wood chair
Using Wood Craft Project plan 412186. Contact superintendent T.J. Brown for plan.
 - 5 Shop equipment
examples: work benches, tool cabinets, etc.
 - 6 Equipment, largely of wood
examples: self feeders, holding pens, chutes
 - 7 Equipment, largely of metal
examples: gates, feed carts, post drivers.
 - 8 Equipment, metal, recreational
examples: patio, barbecue units, etc.
 - 9 Wood splitting machine or tool
May utilize a small gasoline engine or tractor as power source.
 - 10 Hydraulic press
 - 11 Motor stands
 - 12 Work bench
 - 13 Alternate energy related project
 - 14 Engine hoist
-
- 15 Champion; Misc. Agricultural & Home Equipment

Division I: Ag Mech - Major Ag Equipment

Major Agricultural Equipment

1. **Exhibits.** Must be able to pass through an eight foot door.
 - A. **Restored tractors.** Must be unloaded. Displayed in Agriculture-Horticulture Building.
 1. **\$100 tractor fuel stipend** for restored tractors exhibited.

Premiums for Ag Mech - Major Ag Equipment

Divisions G-I (except champions and restored tractors)

\$30 \$24 \$20 \$15 \$10

Tractor Restoration (Division I, classes 7 & 8)

\$130 \$124 \$120 \$115 \$110 all others \$100

Grand & Reserve Champions

\$0 \$0

Class Listing for Ag Mech - Major Ag Equipment

Major Agricultural Equipment

- 1 Tandem wheel implement trailer
- 2 Two wheel trailer
Must include the running gear and box or rack.
- 3 Carpentry
Construction largely of wood. Examples: wagon or trailer boxes, large feeders, farrowing crates, brooder houses, etc.
- 4 Metal construction
Construction largely of metal. Examples: garden tractors, grain or bale elevators, livestock crate, etc.
- 5 Large alternate energy project
- 6 Project utilizing hydraulic components
- 7 Tractor restoration, individual
- 8 Tractor restoration, chapter
- 9 Multipurpose application of sensing and automatic controls
- 10 Miscellaneous major agricultural equipment
- 11 Lawn sprayer
- 12 Champion; Major Agricultural Equipment
- 20 Grand & Reserve Grand Champion Divisions G-I
- 21 Best of Show

Division M: Chapter Awards

Chapter Awards.

1. **FFA Ag Tech Chapter Awards.** Placings of individual FFA members and chapters in divisions F through I considered for these awards.
 - A. **Point System.** 1st place, 5 points; 2nd place, 4 points; 3rd place, 3 points; 4th place, 2 points; 5th place, 1 point. No additional points for champion or reserve.

Premiums for Chapter Awards

Grand & Reserve Champions
\$0 \$0

Class Listing for Chapter Awards

Best of Show

- 1 Premier Chapter
FFA chapter amassing the highest total number of points. Plaque.
- 2 Premier Individual
FFA individual amassing the highest total number of points. Plaque.