

DEPARTMENT 16J

NATURAL SCIENCES

Superintendent & Jr. Fair Board Representative: Tim Heeg, 715-389-1414

Check General Rules and Judging Schedule found in the front of the book.

Face-to-Face Judging will be followed

BEST OF SHOW	ROSETTE
Blue	\$2.00
Red	\$1.75
White	\$1.50
Pink	\$1.25

Write grade as of January 1 on entry tag. All posters must be 14" x 22".

CLASS A: WILDLIFE

Lot

1. Scrapbook of 20 wild animals (pictures or drawings) found in Wisconsin with notes on their feeding habits, reproduction and habitat requirements. May include mammals, birds, insects, reptiles, etc.
2. Scrapbook of 15 mounted plant specimens, which are important wildlife food plants. Describe.
3. Photo story of a pheasant raising project.
4. Plaster casts of 6 different wild animal tracks, mounted on wood or other firm surface.
5. Farm Game, Farm Fur, or Fish Management – best exhibit by member showing work done, including at least one photograph.
6. Poster or scrapbook of at least 10 drawings showing tracks made by different Wisconsin mammals.
7. Scrapbook of a game management tour.
8. Exhibit of camouflage examples in nature.
9. Exhibit of natural adaptations in nature.
10. Poster illustrating at least 3 different careers related to Wildlife and their duties.
11. Any other display related to the project.

CLASS B: BIRDS

Lot

1. Scrapbook of 20 bird pictures, either drawings or cut outs of birds seen and identified. Each drawing properly identified with food habits, migratory habits, habitat and nesting of each bird.
2. Poster with pictures or drawings showing the different kinds of one of the following bird parts: beaks, feet, feathers, or other.
3. Display of food items for birds. Identify each item and list which birds eat that type of food.
4. Birdhouse, which you constructed. Label type of bird intended for and reason for constructing as you did.
5. A bird feeder you assembled (milk carton, plastic bottle, log, etc.).
6. Record of a winter bird feeding program with pictures of birds you have seen, listing species, dates, place and time seen, number and weather conditions.
7. Scrapbook or display of different bird adaptations; list purpose of adaptations.
8. Compare and contrast 5 birds of the field with 5 birds of the forest or marsh.
9. Any other display related to the project.

CLASS C: WILDFLOWERS, PLANTS & EDIBLE, WILD PLANTS

Lot

1. Collect, press, mount and label 15 wildflowers.
2. Collect, press, mount and label 10 wildflowers from at least two different habitats such as marsh, bog, prairie, woods, etc.
3. Collect a single blossom of a flower and label all the parts
4. Make a poster or scrapbook showing the life cycle of a plant, using pressed specimens to show each stage
5. Collect, press, mount and label the leaves of plants showing different leaf arrangements, types of leaves and leaf margins
6. Photos of 20 wildflowers, properly identified. (Photos must have been taken by exhibitor)
7. Poster with pictures of wildflowers that are protected by state law

8. Collect, mount and label at least 15 kinds of plant seeds that show various adaptations to dispersal by wind, water, birds and mammals
9. Exhibit of 10 kinds of aquatic plants properly preserved and labeled
10. Collection of 5 ferns mounted and properly labeled
11. Poster of 6 different, flowering edible wild plants, pictures, photographs or drawings. Label with use descriptions
12. Poster of 6 different non-flowering edible wild plants, pictures, photography or drawings. Label with use descriptions
13. Collection of 6 different flowering edible wild plants, dried, mounted, labeled with use description
14. Collection of 6 different non-flowering edible wild plants, dried, mounted, labeled with use description
15. Poster showing any other wild plant use
16. Any other display related to Class C

CLASS D: INSECTS

Lot

1. Collection of 20 different insects, mounted and correctly identified
2. Drawing or model showing parts of an insect
3. Poster or display on harmful insect and its control and a helpful insect and its use
4. Collection of 10 moths and 10 butterflies mounted and correctly identified
5. Make a display for one insect to include its life cycle, habitat and relationship of the insect to its environment
6. Exhibit of 15 water insects, mounted and correctly identified
7. Exhibit of 15 woodland insects, mounted and correctly identified
8. Display with specimens of insect cycle
9. Any other display related to the project

CLASS E: BEES

Lot

1. Jar of honey
2. Comb of honey
3. Observation hive of bees and queen
4. Charts, posters, etc. related to bees & honey

Bring in sample of honey if possible.

CLASS F: FORESTRY

Lot

1. Diagram of a tree showing requirements for growth and cross section of its trunk showing zones; include description of how a tree grows
2. Scrapbook of a tree "personality profile" for 4 different types of trees using drawings, pictures or rubbings. Include shape of the tree, buds, bark, flowers, fruits or seeds
3. Poster on leaf identification with drawings or samples of each of the following of leaves, simple, compound, needlelike, opposite, alternate, whorled deciduous, and coniferous
4. Collection of 15 important native trees leaf prints in scrapbook. Label with name of tree and location
5. Poster or display showing damage and disease problems in trees
6. Display of edible parts of 10 trees. Include species, part of a tree, eaters, where it grows
7. Collection of 15 different tree seeds, properly labeled
8. Exhibit of branch wood specimens of 5 important trees, not fruit trees, properly prepared, mounted and labeled
9. Biltmore and height estimate stick you made and tally sheet of 15,000 board feet of trees
10. Log scale
11. Exhibit of lumber specimens of ten systems, important native trees neatly mounted & labeled
12. Exhibit showing different wood measuring systems, including board feet, cords, etc.
13. Soil conservation exhibit – best display of work done including at least one photograph, as management plan
14. Display of different soil types found in Wisconsin, labeled
15. A piece of paper made by you
16. Maple syrup – 1 pint with sample
17. Poster or display on maple syrup products
18. Photo record showing steps in collecting and making maple syrup
19. Any other display related to the project

CLASS G: WEATHER, ENVIRONMENTAL STUDY

Lot

1. Environmental study project
2. Chart of daily high temperatures (from newspaper or television) of 4 different cities in different parts of the state or country for two weeks
3. Poster showing what to do during a tornado, hurricane, or blizzard
4. Chart showing type of weather and temperature each day for two months at your home. (Take temperature at same time each day)
5. A weather instrument you have made accompanied with records you have kept while using the instrument for one month
6. Poster or display pertaining to some aspect of weather (types, directions of winds, pressure changes, clouds, precipitation, weather symbols, etc.)
7. Exhibit of a rain gauge accompanied by precipitation records, cloud observation records and other information to complete an actual weather study
8. Poster or exhibit on how weather affects us – include effect on man, crop, and other plants, animals, insects, fish and disease
9. Any other display related to the project

CLASS H: CONSERVATION, RECYCLING, ENERGY

Lot

1. Display showing ways to conserve water
2. Display showing ways to conserve electricity
3. Display showing ways to conserve gas
4. An article you have made from discarded materials. Attach a 3"x5" card stating what it is that was recycled
5. Poster promoting recycling
6. Poster on how compost is made
7. Display on sun-dried fruit
8. Poster promoting good energy conservation
9. Scrapbook of energy saving ideas
10. Poster on alternative energy sources such as solar, wind, hydropower, etc.
11. Display concerning soil conservation, showing good or poor land use, erosion, or pollution
12. Any other display related to the project

CLASS I: SHOOTING SPORTS

Any guns displayed must be replicas or models. No firearms will be allowed in displays.

Lot

1. Poster or display telling story of proper gun handling in one of the following areas:
 - a) A field, examples: in a group, crossing a fence, resting
 - b) Transporting, examples: car or boat
 - c) Storage: in the home
2. Poster or display of at least 10 types of guns, drawings, or cut out pictures. Include name, action design, and other information to help identify the weapon
3. Poster or display identifying the parts of a gun with a key to the purpose of each part
4. Poster or display identifying common game animals and birds with information on identification, feeding habits, reproduction and habitat requirements and state laws regulating hunting of the animal or bird
5. Poster or display on preparing game, such as skinning, plucking, drawing, etc.
6. Any taxidermy article
7. Wood duck house
8. Display of 5 different species of duck wings mounted on a board
9. Poster or display depicting what exhibitor has done or learned about sportsmanship, hunting, or gun safety
10. Exhibit showing the observance of and/or disregard of the ten commandments of firearm safety
11. Poster showing the four shooting positions & the advantages and disadvantages of each
12. Display identifying the parts of a recurved bow and compound bow and the purpose of each part
13. Poster identifying the parts of an arrow and the purpose of each part
14. Display various types of traps & how to use each type. Include any regulations involved
15. Scrapbook of hunting experience including: license, results, examples of following safety practices and game laws, and personal memories

16. Any other display related to the project

CLASS J: 4-H ARCHERY FREESTYLE LIVE

Ribbon Only

Two demonstrations of member's skills developed through participation in 4-H Shooting Sports events. Member must sign up for both demonstrations in order to participate in both.

Because this is a ribbon only event, it will not count towards an Explorer's 6 entries.

Member must have attended a minimum of four (4) archery events put on by a WI or Wood County 4-H certified archery leader in the 10 months immediately preceding July 25 of the fair year. Member's events can be logged and verified at the club level or tracked by the individual member. If tracked individually, member must log the date, place and initials of certified 4-H Shooting Sports leader(s) working with member. Event log must accompany the fair entry form. A member must be at least 8 years of age as of January 1 of the 4-H year.

Skills & Knowledge

The members will be judged on their knowledge of the correct shooting form including stance, posture, sighting, line courtesy, release, follow through and safety. Six, five-arrow rounds will be shot on targets positioned at 10 yards for Juniors, 15 yards for Intermediates, and 20 yards for Seniors.

Lot

1	Junior	Grades 3-5	10 yards
2	Intermediate	Grades 6-8	15 yards
3	Senior	Grades 9-13	20 yards

Eliminator Round

Members will shoot one arrow per round at a breakable target. All members start at 10 yards. If arrow breaks target, member proceeds to next round. Each subsequent round moves back 5 yards until 1 shooter is left or range distance capacity is fully utilized. Breakable targets will be constant in size while members are moving back. If range distance capacity is fully utilized, breakable target size will be reduced in each subsequent round until one shooter is left.

Lot

4	Junior	Grades 3-5
5	Intermediate	Grades 6-8
6	Senior	Grades 9-13

CLASS K: CROSS-COUNTRY SKIING

Lot

1. Poster or display on cross-country skiing techniques or safety rules
2. Poster or display on proper care of equipment, such as waxing, storage, etc.
3. Scrapbook showing our activities in cross-country skiing (trips, ski patrol, trail improvement, etc.)
4. Poster or display showing difference between cross-country skiing and downhill ski equipment
5. Any other exhibit related to the project

CLASS L: FAMILY CAMPING

Lot

1. Poster, display, or scrapbook on selection of basic camping equipment.
2. Poster or display showing selection of suitable campsite
3. Poster, display or scrapbook on fire building (fire safety, types of fire and uses, how to start, fire ingredients, etc.)
4. Assemble a first aid kit for camping and identify contents and use
5. Poster on camping safety showing safety hazards and corrections
6. Scrapbook of your camping activities
7. Table centerpiece from materials found at campsite (nothing living)
8. Homemade camp equipment (buddy burner, vagabond stove, reflector oven, lashed camp equipment, tools, etc.). Include description of ways the item is to be used (no kits)
9. Poster or scrapbook on camp cookery and cleanliness. Include one planned meal
10. Poster or scrapbook showing camp recreation activities
11. Any other display related to the project

CLASS M: FISHING

Hooks must be capped or have corks on points.

Lot

1. Display of 10 purchased artificial bait, labeled

with how and where to use, what fish they will catch and what natural food they imitate

2. A scrapbook of mounted drawings or cut out pictures of 10 fish found in Wisconsin, properly labeled with notes on the type of habitat, spawning, feeding habits and state law regulating the taking of fish
3. Poster on proper handling & cleaning of fish
4. Poster on safety tips for fishing (boat safety, ice or water safety, first aid, etc.)
5. Scrapbook of your fishing activities. Include trips, photos, stories, information on fish caught, baits used.
6. Homemade flies or plugs mounted on 10" x 10" board
7. Diagram of fish parts, properly labeled
8. Display of fish aging by scales
9. Any other display related to the project