

DEPT. 16 – NATURAL SCIENCE
JUNIOR DIVISION



Superintendent: Mike VanDeurzen 920-336-0520

Christian Wagner

Entries Due:	July 15 th	Arrival:	Tuesday, 1:30 – 5:30 p.m. (Div. 143-147 & 149-159)
Judging (Danish):	Division 147 Class 22-23	Release:	Sunday, 6:00 p.m.
Judging (Face-to-face):	Divisions 143-147 & 149-159		Tuesday, 1:30 – 6:00 p.m.

IN ADDITION TO THE RULES LISTED BELOW, PLEASE REFER TO ALL THE RULES AND REGULATIONS LISTED IN THE FRONT SECTION OF THIS BOOK.

GENERAL RULES:

1. Exhibitors must be enrolled in the Natural Science Project or Doing Similar Work in another Youth Organization in order to Exhibit/Show.
2. All Posters must be no larger than 14" x 22" and Displays must be no larger than 36" x 36".
3. No Actual Bird Nests.
4. All Entries must be labeled identifying Where Your Study Took Place (i.e. Backyard, Woodland, Park, Wetland, Field, etc...) or Where Specimen Was Found.

PREMIUMS FOR Divisions 143-159:	1st	2nd	3rd	4th
	\$2.00	\$1.75	\$1.50	\$1.25

DIVISION 143 – BIRDS

CLASS NO.

1. **Bird Bodies:** Display and Identify the Body Parts of a Bird and their Functions
2. **Bird Display:** Drawings or Cut-Outs of at Least 10 Birds; giving Name, Food Habits, Migratory Habits, Habitat & Nesting Habits of Each.
3. **Bird Foods:** A Display of at Least 6 Food Items for Birds (Commercial Bird Foods or Plants & Shrubs that Provide Food); Identify Each Item & List which Birds Eat Each Type of Food
4. **Bird House:** Bird House which you Constructed; Label Type of Bird Intended For & Reason for the House Design
5. **Compare/Contrast:** Compare and Contrast at Least 4 Different Birds. Show how their Differences are Necessary for How and Where they Live
6. **Nest Photography:** Photographs of 4 or more Bird Nests; identify Type, Place Located & Date Found
7. Any Other Exhibit not Listed Above

DIVISION 144 – SPORTFISHING

CLASS NO.

1. **Artificial Lures/Flies:** Display of 3 Artificial Lures or Flies you have made
2. **Boat Safety:** Poster on Fishing Boat Safety, Including a Safety Checklist
3. **Bobber/Bottom Fishing:** Poster showing Differences between Bobber & Bottom Fishing
4. **Cooking Fish:** Poster on Cooking Fish
5. **Fish Bodies:** Poster on the Parts of a Fish
6. **Fish Senses Poster:** (Smell, Sight, Taste, Hearing); Compare 4 or more Fish
7. **Fish Types:** Poster or Display of at least 5 types of fish found in Northeast Wisconsin
8. **Fishing Map:** Map of Favorite Fishing Spot
9. **Game:** Create a Fishing-Related Game
10. **Insects:** Poster on at least 4 Types of Insects that Fish Like
11. **Jig display** – Different Head Styles & Materials; at Least 5 Types
12. **Reel Parts:** Poster Identifying Parts of a Fishing Reel
13. **Rod AND Reel Parts:** Poster on Parts of a Rod & Reel
14. **Tackle Box:** Tackle Box with Inventory Checklist
15. Any other item not listed above

DIVISION 145 – ENTOMOLOGY

RULES:

1. Insects must be properly killed, mounted and identified.
2. Identification must include Common Name, Date & Location Insect was Found and the Insect's Stage of Development (Nymph, Egg, Larvae, Adult, etc...)

CLASS NO.

1. **Cocoon/Chrysalis**: A Collection, Diagram or Photograph of 4 or More Different Kinds of Cocoons or Chrysalises and the Emerged Moths or Butterflies
2. **Entomology Careers**: Poster or Display on Entomology Careers
3. **Insect Control**: Poster or Display of an Insect Control Activity
4. **Insect Life Cycle**: Poster or Display Explaining the Life Cycles of an Insect
5. **Insect Parts Poster**: Poster or Display Identifying the Parts of an Insect
6. **Specimens**: 10 or More Specimens of Insects (See Mounting and Identification Guidelines Above)
7. **Species Scrapbook**: Scrapbook of 10 or More Species of Insects; (Photograph or Drawing of Each, Properly Identified); Describe Habitat & Environment, Eating Habits & Food
8. **Tree/Plant Injury**: A Collection of Trees or Plant Parts Showing 4 or More Different Types of Injury which Insects have Caused & a Report on the Insects Causing the Damage
9. **Value of Insects Poster**: Poster or Display Explaining the Value of Insects
10. Any Other Exhibit not Listed Above

DIVISION 146 – FORESTRY

CLASS NO.

1. **"Damaged Wood" Samples**: Collection of at Least 4 Wood Samples Showing Results Wrought by Disease, Insects, etc. (Labeled and Explained)
2. **Forest Harvesting**: Poster or Display Showing a Forest Harvesting Method
3. **Leaves**: Exhibit of 15 or more Kinds of Leaves from Trees Grown in Wisconsin, (Properly Labeled)
4. **Plant Press**: Plant Press made BY Exhibitor
5. **Scrapbook**: Scrapbook showing Map of Woodlot, Planting Plans, Pictures, etc...
6. **Tree Lifespan Poster**: Poster or Display Tracing the Life of a Tree from Seed to Finished Product
7. **Tree Poster**: Poster or Display Showing one of the following: A) Proper Tree Planting Methods; B) Methods of Seed Dispersal; C) Uses of Different Types of Wood; D) Types of Tree Shapes; E) Parts of a Tree, Including Cross-Section of Trunk - Label Zones in Cross-Section
8. **Tree Seeds**: Collection of Tree Seeds from at Least 15 Trees, Properly Labeled
9. **Wood Samples**: Collection of at least 6 Wood Samples, Properly Labeled
10. Any Other Exhibit not Listed Above

DIVISION 147 – SHOOTING SPORTS – Displays & Exhibits

*****Bows, arrows, firearms, air guns, and live ammunition are NOT permitted as part of the exhibit. Please use a poster or display with photos for these items*****

CLASS NO.

1. **Archery Equipment Poster:** Educational Poster or Display on Archery Equipment
2. **Bow & Arrow Poster:** Educational Poster on the Parts of a Bow & Arrow
3. **“Competition Experience” Exhibit:** Exhibit or Report of Competition Experience (Competition to have been Experienced Between the Interim of the Previous Fair & the Current County Fair)
4. **Firearm Parts Poster:** Poster Identifying the Parts of a rifle, shotgun or air pistol
5. **Gun Maintenance Poster:** Poster on the Proper Care and Maintenance of a Gun
6. **Homemade Armguard, Finger Tab or Glove**
7. **Homemade Arrow**
8. **Homemade Bow Case (Fabric or Wood)**
9. **Homemade Ground Quiver**
10. **Homemade Gun Case (Fabric or Wood)**
11. **Homemade Hip or Belt Quiver**
12. **Homemade Kneeling Roll**
13. **Homemade Pellet Block or Stand**
14. **Homemade Rifle Sling**
15. **Homemade Shell Pouch**
16. **Homemade Shooting Bench**
17. **Hunter’s Essay or Diary:** Scrapbook or Essay on a Hunter’s Diary of his/her own Hunt (Hunt to have been Experienced between the Interim of the Previous Fair and the Current County Fair)
18. **Shooting Sports Progress:** Enter 2 targets YOU shot, 1 from an early practice and 1 from a later practice. Write up and explanation of what you have learned.
19. **Sight Alignment Poster:** Poster or Display Illustrating and Briefly Explaining Proper Sight Alignment for (Select One): Archery, Air Rifle, Air Pistol, 0.22 cal. Rifle, or Shotgun Trap Gun
20. **Survival Kit:** Homemade Survival Kit Assembled by Member with a Brief Explanation of each Item’s Potential Use ~ Must Include 8 Items. Display should be in a Container (Example: Shoe Box or Ice Cream Bucket)
21. **Target holder:** Made from PVC Pipe or From Wood
22. **Archery Target:** shoot from short practice distance—Enter 1 scored archery target you shot at a practice (Must be shot between the interim of previous Fair and the Current County Fair and must be signed by a coach). Ribbons will be assigned at the end of the entry day after all exhibits have been entered.
23. **Archery Target:** shoot from middle practice distance—Enter 1 scored archery target you shot at a practice (Must be shot between the interim of previous fair and the current fair and must be signed by a coach. Ribbons will be assigned at the end of the entry day after all exhibits have been entered.
24. **Archery Target** – shoot from long practice distance – Enter 1 scored archery target you shot at a practice (Must be shot between the interim of previous Fair and the current County Fair and must be signed by a coach). Ribbons will be assigned at the end of the entry day after al exhibits have been entered.
25. **Air rifle targets** – plinker (black gun at practice). Enter a set of prone, kneeling and standing air rifle targets you shot at a practice (Must be shot between the interim of previous fair and the current County Fair and must be signed by a coach). Ribbons will be assigned at the end of the entry day after all exhibits have been entered.
26. **Air rifle targets** – sporter (red, white, and blue gun at practice). Enter a set of prone, kneeling and standing air rifle targets you shot at a practice (Must be shot between the interim of previous fair and the current County fair and must be signed by a coach). Ribbons will be assigned at the end of the entry day after all exhibits have been entered.
27. **Competition Essay/Scrapbook** – Scrapbook or Essay on a shooting competition you participated in (Competition must have occurred between the interim of the previous fair and the current county fair)
28. Any other exhibit not listed above

DIVISION 149 – INTRO TO NATURE SPACE

RULES:

1. All Entries must be Labeled Identifying Where your Study Took Place (i.e. Backyard, Woodland, Park, Wetland, Field, etc...)

CLASS NO.

1. **Animals/Plants:** A Poster of at least 4 Animals and/or Plants Found within the Nature Space
2. **Food Chains:** A Poster or Exhibit showing the Food Chains found in Nature Space (be sure to use only the plants and animals that were actually observed in the nature space)
3. **Map & Inventory:** A Map and Inventory of the Plants and Animals found in Nature Space, the Inventory can be Done Creatively using Drawings, Snapshots, Listings, etc...
4. **Seasonal Weather Changes:** An Exhibit showing the Seasonal Weather Changes in Nature Space.
5. **Specimens:** Any Display or Collection of at least 4 Specimens found within Nature Space; all Specimens must be Properly Mounted and Labeled including Common Names, Date & Location of Collection
6. Any Other Exhibit not Listed Above.

DIVISION 150 – MAPLE SYRUP

CLASS NO.

1. **Equipment:** Poster or display that explains the equipment used for making maple syrup
2. **Syrup-Making:** Poster or display with pictures that explains the various steps to making maple syrup
3. **1 Pint of Maple Syrup:** (Jars will be opened for tasting, then refrigerated or photographed and taken home). Jars may contain the packaging label of the producer.
4. Any other exhibit not listed above

DIVISION 151 – CROSS-COUNTRY SKIING, DOWNHILL SKIING & DOG SLEDDING

CLASS NO.

1. **Activities:** Scrapbook Showing your Activities in Cross-Country Skiing, Downhill Skiing or Dog Sledding
2. **Animal Selection/Care:** Poster or Display Relating to Animal Selection and/or Care of Animals for Dog Sledding
3. **Equipment Care:** Poster or Display on Proper Care of Equipment; such as Waxing, Storage, Repairing, etc...
4. **Equipment Selection:** Poster or Display on Equipment Selection
5. **Safety Rules:** Poster or Display on Techniques or Safety Rules
6. Any other exhibit not listed above

DIVISION 152 – WILDFLOWERS

CLASS NO.

1. **Native Ferns:** Collection of 4 Native Ferns; Properly Pressed, Mounted & Labeled
2. **Garden Plan:** Plan of your Wild Flower Garden or Preserve
3. **Plant Life Cycle:** Chart or Diagram showing the Life Cycle of a Plant; use Pressed Specimens to show each Stage of Development
4. **Pressed Flower:** Exhibit of a Picture or Actual Pressed Blossom of a Flower with all Flower Parts Properly Labeled
5. **Wild Flower Seeds:** Collection of 6 Kinds of Wild Flower Seeds Mounted, Showing Various Adaptations to Dispersal by Wind, Water, Birds & Mammals
6. **Wild Flowers:** Collection of 6 Wild Flowers- Properly Pressed, Mounted and Labeled
7. Any other exhibit not listed above

DIVISION 153 – WILDLIFE

CLASS NO.

1. **10 Wildlife Tracks:** Poster of 10 Wildlife Tracks, labeled. Tracks can be pictures, stamps, drawings, etc.
2. **Animal Tracks:** Plaster Casts of 4 Different Animal Tracks; mounted on a firm surface
3. **Camera Hunt:** Photo Display of Wild Animals taken during a "Camera Hunt" (minimum of 4 photos)
4. **Camouflage:** Exhibit of Camouflage Examples in Nature
5. **Fur-Bearing Mammals:** Poster or Display consisting of a Chart of Pictures of 6 Fur-Bearing Mammals with a write-up for each, including Habits
6. **Game Animals:** Poster or Display showing 6 Game Animals found with Notes on their Feeding Habits & Habitat Requirements
7. **Sportsmanship/Hunting Ethics:** Poster or Display of any Phase of Sportsmanship or Hunting Ethics

8. **Taxidermy:** Any Finished, Clean Taxidermy Article made by member
9. Any other exhibit not listed above

DIVISION 154 – OTHER NATURAL SCIENCES

CLASS NO.

1. Any Original Display related to Other Areas in the Natural Sciences
2. Any Original Display relating to Weather
3. Any other exhibit not listed above

DIVISION 155 – RECYCLING

CLASS NO.

1. **Animal Bedding:** Poster or Display showing how to make Animal Bedding from Scrap Paper OR the Pros and Cons of Animal Bedding made from Paper
2. **Benefits:** Poster or Display on Benefits of Recycling
3. **Composting:** Poster or Display on Composting
4. **Decomposers:** A Labeled Display of Nature's Recyclers (Decomposers) using Drawings, Pictures or Photographs
5. **Documenting:** A Poster, Series of Labeled Photographs, Scrapbook, or Journal Documenting your Recycling, Waste Reduction or Recycling Education Efforts
6. **Farm/Home Recycling:** A Farm or Home Recycling Exhibit
7. **Landfill/Incinerator:** A Model Landfill or incinerator with an Explanation of how it Works
8. **Natural Cycles A:** Poster or Display showing how Recycling fits into Natural Cycles
9. **Natural Cycles B:** Poster or Display showing Natural Cycles (Water Nutrients, etc...)
10. **New Products:** Poster or Display showing New Products that are Currently being made from Recycle Material; show the Initial Product, Intermediate Steps & New Product
11. **New/Old Products:** A Creative Exhibit showing a New Product (with a new use) invented from an old Product
12. **Paper Making:** Display of Equipment and Explanation of the Process of Making your own Paper from Old Paper; including Sample of the Paper you Made
13. **Pros/Cons:** Poster or Display showing the Pros & Cons of Land Filling, Incineration, and Recycling
14. **Radio:** Written Radio Script or Commercial on Recycling
15. **Recycling:** Poster or Display on Recycling of Products
16. **Resources:** Poster or Display showing Renewable & Nonrenewable Resources
17. **Smart Shopping:** Poster or Display Showing Environmentally Smart Shopping
18. **Soil Building:** Display of Soil Building with a Description of How it Works (use Aquarium, Terrarium or Large Glass Jar)
19. **Waste Generation:** Poster or Display Showing Daily, Weekly or Annual Amount of Waste Generated by an Individual, Family, Club, State or County
20. Any other exhibit not listed above

DIVISION 156 – CANOEING AND BOATING

CLASS NO.

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| <ol style="list-style-type: none"> 1. Equipment Maintenance: Poster or Display on Care & Maintenance of Equipment 2. Homemade Paddles / Oars 3. Techniques: Poster or Display on Paddling/Oaring Techniques | <ol style="list-style-type: none"> 4. Trip: Poster or Display of a Trip 5. Water Conditions: Poster or Display on Water Conditions 6. Water Safety: Poster or Display on Water Safety 7. Any other exhibit not listed above |
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DIVISION 157 – BEEKEEPING

CLASS NO.

1. **Beeswax:** One Cake of Beeswax Containing Not Less than ¼ Lb, must be Solid and Contain No Cracks
2. **Candle:** Beeswax Candle
3. **Honey:** Extracted Honey; 1 Lb Jar
4. **Project:** Poster or Display of a Beekeeping Project
5. Any other exhibit not listed above

DIVISION 158 – BACKPACKING, HIKING, BIKING AND CAMPING

CLASS NO.

1. **Basics:** Poster, Display or Scrapbook on how to Select Basic Backpacking, Hiking, Biking or Camping Equipment
2. **Campsite Selection:** Poster or Display Showing Selection of a Suitable Campsite
3. **Environment Preservation:** Poster or Display that shows Ways to Preserve the Environment during a Trip
4. **Fire Building:** Poster, Display or Scrapbook on Fire Building Fire Safety/Types of Fire & Uses/How to Start Fire/ Fire Ingredients, etc...)
5. **Food:** Poster or Display of Food to Pack for a Backpacking, Hiking, Biking, or Camping Trip
6. **Planning:** Poster or Display that Describes how to plan for a Safe & Fun Backpacking/Hiking/Biking/Camping Trip
7. **Proper Clothing:** Poster or Display of Proper Clothing for a Backpacking, Hiking, Biking, or Camping Trip
8. **Safety Equipment:** Poster or Display of Safety Equipment to Bring on a Trip
9. **Scrapbook:** Scrapbook of your Backpacking, Hiking, Biking, or Camping Trip
10. Any other exhibit not listed above

DIVISION 159 – ASTRONOMY

CLASS NO.

1. **Astronomy:** Poster of display of the history of astronomy
2. **Navigation:** Poster or display of early navigation methods using object in the sky
3. **Solar Item**
4. **Star Charts:** Poster or display of one or more star charts
5. **Telescope:** Poster or display of the parts of a telescope
6. **The Sky:** Poster or display of planets, stars, comets, etc. in the sky
7. Any other exhibit not listed above