

2016

JUNIOR FAIR NATURAL SCIENCES

Department 16 – Superintendent – Ed Zahn – 920-323-6926

Email: hisministries2b@yahoo.com

1. Judging Day (Individual Conference Judging) – **Monday, August 22**, as follows: 10am to 2pm and 2:30pm to 6pm in the Exhibition Building.
2. Release Day – **Sunday, August 28**, between 6:30pm and 8:30pm.
3. No changes will be allowed after registration forms are submitted.
4. **Four (4) exhibits per class per exhibitor.**
5. **One (1) entry/exhibit per lot number.**
6. Entry tags must be stapled to the lower left hand corner. Identify all “any other” exhibit on entry tag and registration form.
7. All posters are 14”x22”. Notebooks may be used for leaf collections in Forestry. Posters in Wildflowers must be a minimum of 14”x22” to a maximum of 22”x28”.
8. Open to any youth enrolled in a 4-H Natural Sciences project or doing equivalent work in this type of project. Exhibitor is limited to showing only those specific areas enrolled in.
9. Displays must be no larger than 2’x4’.

Premiums for Lot Numbers 100-244 are as Follows:

Blue Ribbon - \$2.00

Red Ribbon - \$1.75

White Ribbon - \$1.50

Pink Ribbon - \$1.25

CLASS A: BIRDS

Lot Numbers:

100. Exhibit of at least 5-10 birds (drawings or pictures, properly labeled; food habits, migratory habits, habitat and nesting habits of each bird included).
101. Birdhouse, simple.
102. Birdfeeder assembled from a milk carton, plastic bottle, log, etc.
103. Birdfeeder, wood.
104. Poster: Pictures or drawings comparing species of birds in relation to a bird’s parts such as beak, feet, feathers, head, etc.
105. Picture or drawing of bird parts.
106. Poster: Different bird adaptations, list purpose of adaptations.
107. Poster: Migration of 1 bird.
108. Display: Bird food from pellets, house mixture, commercial bird food, or a collection of plant or shrubs that provide food for birds.
109. Exhibit bird observation.
110. Photo display of 5 different birds.
111. Photos of 4 or more bird nests. Identify type, place located, and date found.
112. Display: Show owl pellets that have been picked apart to show the feeding habits of owls. The owl should be identified along with the food items found in the pellets.
113. Any other bird related exhibit, identify.

CLASS B: INSECTS/ENTOMOLOGY

1. Collections should be neat and accurate with common name, scientific name (to order), date collected, where collected, collector’s name or initials.
2. Extracted and Granulated Honey must be in new 1 pound or 1 pint jars with new covers, used jars and covers will be disqualified.
3. No purchased insects allowed.
4. Cigar boxes or gift boxes may be used for collections.

Lot Numbers:

114. Drawing or model: Show the parts of an insect.
115. Collection of 10 moths and 10 butterflies, identified and labeled.
116. Identify insect parts.
117. Display: Show how insects move.
118. Exhibit on insect communication.
119. Display: Show insect control.
120. Collection of 15 types of insects (properly mounted).
121. Exhibit on entomology careers.
122. Collection of 10 insects representing 4 different mouth types.
123. Collection of insect wings showing wing types and parts.
124. Exhibit on insect observations.
125. Exhibit on an insect’s life cycle.
126. Insect Collection – first year – 10 insects.
127. Insect Collection – second year – 20 insects or more.
128. Insect Collection – third year – 30 insects or more.
129. Poster: Show insect parts, identify.
130. Jar of Honey.
131. Jar of granulated Honey.
132. Comb of Honey wrapped, either a 4”x4” or round individual comb.
133. Items created out of beeswax.
134. Exhibit on beekeeping.
135. Any other bees and honey exhibit not listed, identify.
136. Any other insect exhibit not listed, identify.

Junior Fair Natural Sciences

Department 16

1 of 4

CLASS C: FORESTRY

Lot Numbers:

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| <ul style="list-style-type: none"> 137. Collection of leaves, winter twigs, and fruit of 10 trees (identify name of tree, date of collection, county, and habitat). 138. Collection of 10 kinds of tree seeds (include name of tree, means of seed dispersal, desirable seedbed conditions, date, and place of collection). 139. 15 different leaf prints (labeled according to species). 140. Collection of at least 15 different tree leaves found in Northeast Wisconsin (labeled according to species). 141. Biltmore and height estimating stick or log scale stick. | <ul style="list-style-type: none"> 142. Chart or Diagram: Show the annual life history of a tree. 143. Display: Tree ailments and suggested cure. 144. Collection of 10 lumber specimens of native trees (label with name of wood properties, uses, and date of collection). 145. One pint of maple syrup. 146. Display: Maple sugaring equipment with written explanation of how it is used. 147. Exhibit on managing woodlands. 148. Exhibit on Christmas tree production. 149. Any other forestry exhibit not listed, identify. |
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CLASS D: WILDLIFE

Lot Numbers:

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| <ul style="list-style-type: none"> 150. Exhibit showing wildlife as a resource. 151. Identify wildlife and their foods. 152. Exhibit on endangered species. 153. Exhibit on Wisconsin game birds or animals. 154. Wildlife management/practices or plan. | <ul style="list-style-type: none"> 155. Exhibit on human impact on wildlife habitat. 156. Exhibit on camouflage nature. 157. Exhibit on 4 different animal tracks. 158. Any other wildlife exhibit not listed, identify. |
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CLASS E: WILDFLOWERS

Lot Numbers:

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| <ul style="list-style-type: none"> 159. Grades 3-5 – Collect, press, mount, and label 15 wildflowers. 160. Grades 6-8 – Collect, press, mount, and label 20 wildflowers. 161. Grades 9-13 – Collect, press, mount, and label 25 wildflowers selected from at least 2 different habitats (ex: marsh, bog, prairie, etc). 162. Collect a single blossom of a flower and label all of the parts. 163. Photos of 10 wildflowers, properly identified. 164. Homemade plant press (with explanation of use). | <ul style="list-style-type: none"> 165. Exhibit pressed blossom of a flower (with all flower parts properly labeled). 166. Collection of 10 kinds of wildflower seeds (show dispersal by wind, water, birds, and mammals). 167. Mounted collection of 10 wildflower photos. 168. Wildflower arrangement. 169. Exhibit on edible or medicinal plant uses. 170. Photo story (show the creation and maintenance of a wildflower garden). 171. Any other wildflower exhibit not listed, identify. |
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CLASS F: WEATHER

Lot Numbers:

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| <ul style="list-style-type: none"> 172. Poster of 4 photos taken from the same location showing 4 different kinds of weather. Label with temperature, type of clouds, precipitation, and weather description. 173. Chart of daily high temperature (from newspaper or TV of 4 different cities in different parts of the state or country for 2 weeks). 174. Poster showing how exhibitor did a weather experiment and the results of the experiment. 175. Poster showing what to do during a tornado, hurricane, or blizzard. 176. Chart showing type of weather and temperature each day for 2 months at your home. Take the temperature at the same time each day. | <ul style="list-style-type: none"> 177. A weather instrument made, accompanied with records kept while using the instrument for 1 month. 178. A chart showing daily variations in temperature – morning and evening – for a 2 month period in Manitowoc County. 179. Poster on the 4 elements of weather and how they are measured. 180. Poster pertaining to some aspect of weather – types of directions of winds, pressure changes, clouds, precipitation. 181. Scrapbook, labeled – showing different kinds of clouds. 182. Scrapbook of activities in the weather project. 183. Any other weather exhibit not listed above, identify. |
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CLASS G: SHOOTING SPORTS

Lot Numbers:

- 184. Safety poster showing 4 safety hazards when handling a gun or bow.
- 185. Illustrated poster on proper care and maintenance of a gun or bow..
- 186. Poster or display of at least 8 types of guns. Sketch or use a picture to identify. Include name, action, design, and other information to help identify the gun.
- 187. Display or Poster: Identify the parts of a gun or bow with a key to the purpose of each part.
- 188. Display: Various empty shell casings mounted with a description of the gun and their use.
- 189. Display or Poster: Related to the archery project.
- 190. Hunting Diary.
- 191. Display or Poster: Identify common game animals and birds with notes on identification, feeding habits, habitat requirements, and state hunting regulations.
- 192. Any other shooting sports exhibit not listed, identify.

CLASS H: FISHING

Lot Numbers:

- 193. 2'x2' Lure Display: On a flat wooden board – 4 jigs, 4 spoons, 4 spinners, 4 crank baits, 2 musky plugs.
- 194. Poster: Fish ID Guessing Game – Fish pictures – fish names with flip cover.
- 195. Tips for catch and release poster – 5 tips minimum (14"x22").
- 196. Poster: Show 5 fish in their habitat.
- 197. Any aspect of fishing safety.
- 198. Display: 10 knots for fish/boating (mounted and labeled).
- 199. Display: 2 or more lures (made from recycled materials).
- 200. Tackle box inventory check list with tackle box.
- 201. Poster: Explain how to use spinning rod and reel.
- 202. Poster: Show Fish Adaptations.
- 203. Display or Poster: Show parts of fishing reel.
- 204. Poster: Fish Handling (preserving or preparing).
- 205. Display or Poster: Any aspect of boating or fishing safety.
- 206. Any other fishing exhibit not listed, identify.

CLASS I: OUTDOOR ADVENTURES

Lot Numbers:

- 207. Display or Poster: Safety for outdoor adventure activities.
- 208. Display or Poster: Outdoor survival.
- 209. Display: First aid items, labeled along with function.
- 210. Display: Adventure equipment, parts labeled with function.
- 211. Scrapbook or Collection related to outdoor adventures.
- 212. An original poem, song, or story about outdoor adventures.
- 213. Poster: Map reading and orienteering.
- 214. Poster: Show food, supplies and equipment needed for a 3 day proposed family adventure, include a detail itemized budget.
- 215. Poster: 6 family adventure photographs with captions.
- 216. Poster: Careers related to outdoor adventures.
- 217. Any other exhibit related to camping, hiking, skiing, bicycling or canoeing exhibit not listed, identify.

CLASS J: GEOLOGY

Lot Numbers:

- 218. Exhibit on geological events, such as glaciers, earthquakes, or volcanoes.
- 219. Exhibit of a rock collection, fossil, or mineral (labeled).
- 220. Exhibit of jewelry or craft made from rocks.
- 221. Exhibit of soils from Wisconsin.
- 222. Display: Soil Erosion.
- 223. Display: Soil and Water Conservation.
- 224. Exhibit on clouds, air pressure, wind, heat.
- 225. Exhibit on interrelationships of humans, plants, wildlife, water, air, and sun.
- 226. Display: Food Web.
- 227. Display: Human Effects on the Environment.
- 228. Any other geology exhibit not listed, identify.

2016

CLASS K: RECYCLING

Lot Numbers:

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| 229. Display: One item made from recycled materials. | 233. Exhibit of renewable and non-renewable resources. |
| 230. Poster: Show new products made from recycled material. | 234. Display or Exhibit: How to compost. |
| 231. Display or Exhibit: Turn trash into cash. | 235. Design a landfill. |
| 232. Display or Poster: Show how to recycle or the importance of recycling. | 236. Photo story of how to make compost. |
| | 237. Any other recycling exhibit not listed, identify. |

CLASS L: HOME ENERGY

Lot Numbers:

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| 238. Notebook showing the results and conclusions 2 energy experiments or activities. | 241. Solar cooker. |
| 239. Sun dried slices from 1 apple and 1 pear. | 242. Poster: Promoting good energy conservation. |
| 240. Notebook including results of an energy hunt, home energy survey, and a story on conclusions. | 243. Scrapbook of energy saving ideas. |
| | 244. Any other home energy exhibit not listed, identify. |