

# 2021

## JUNIOR FAIR NATURAL SCIENCES

Department 16 – Superintendent – Jackie Mueller – 920-973-4930

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1. Judging Day (Individual Conference Judging) – **Monday, August 23**, as follows: 10am to 2pm and 2:30pm to 6pm in the Exhibition Building.
2. Release Day – **Sunday, August 29**, between 6pm and 7:30pm. Vehicle access begins at 6:30pm. **Exhibits released prior to release date and time will not receive premiums.**
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:

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|---|--|
| 100. Birdfeeder assembled from a milk carton, plastic bottle, log, etc.   | 106. 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. Birdfeeder, wood.  | 107. Photo display of 5 different birds.   |
| 102. Birdhouse, simple.   | 108. Photos of 4 or more bird nests. Identify type, place located, and date found.   |
| 103. Display: Bird food from pellets, house mixture, commercial bird food, or a collection of plant or shrubs that provide food for birds.                                  | 109. Picture or drawing of bird parts.   |
| 104. 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. | 110. Poster: Different bird adaptations, list purpose of adaptations.  |
| 105. Exhibit bird observation.  | 111. Poster: Migration of 1 bird.  |
|   | 112. Poster: Pictures or drawings comparing species of birds in relation to a bird’s parts such as beak, feet, feathers, head, etc.                            |
|   | 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:

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

Junior Fair Natural Sciences  
Department 16

## CLASS C: FORESTRY

### Lot Numbers:

137. 15 different leaf prints (labeled according to species).
138. Biltmore and height estimating stick or log scale stick.
139. Chart or Diagram: Show the annual life history of a tree.
140. Collection of leaves, winter twigs, and fruit of 10 trees (identify name of tree, date of collection, county, and habitat).
141. Collection of 10 kinds of tree seeds (include name of tree, means of seed dispersal, desirable seedbed conditions, date, and place of collection).
142. Collection of 10 lumber specimens of native trees (label with name of wood properties, uses, and date of collection).
143. Collection of at least 15 different tree leaves found in Northeast Wisconsin (labeled according to species).
144. Display: Maple sugaring equipment with written explanation of how it is used.
145. Display: Tree ailments and suggested cure.
146. Exhibit on Christmas tree production.
147. Exhibit on managing woodlands.
148. One pint of maple syrup.
149. Any other forestry exhibit not listed, identify.

## CLASS D: WILDLIFE

### Lot Numbers:

150. Exhibit on 4 different animal tracks.
151. Exhibit on camouflage nature.
152. Exhibit on endangered species.
153. Exhibit on human impact on wildlife habitat.
154. Exhibit showing wildlife as a resource.
155. Exhibit on Wisconsin game birds or animals.
156. Identify wildlife and their foods.
157. Wildlife management/practices or plan.
158. Any other wildlife exhibit not listed, identify.

## CLASS E: WILDFLOWERS

### Lot Numbers:

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. Collection of 10 kinds of wildflower seeds (show dispersal by wind, water, birds, and mammals).
164. Exhibit on edible or medicinal plant uses.
165. Exhibit pressed blossom of a flower (with all flower parts properly labeled).
166. Homemade plant press (with explanation of use).
167. Mounted collection of 10 wildflower photos.
168. Photos of 10 wildflowers, properly identified.
169. Photo story (show the creation and maintenance of a wildflower garden).
170. Wildflower arrangement.
171. Any other wildflower exhibit not listed, identify.

## CLASS F: WEATHER

### Lot Numbers:

172. Chart of daily high temperature (from newspaper or TV of 4 different cities in different parts of the state or country for 2 weeks).
173. Chart showing daily variations in temperature – morning and evening – for a 2 month period in Manitowoc County.
174. Chart showing type of weather and temperature each day for 2 months at your home. Take the temperature at the same time each day.
175. Poster on the 4 elements of weather and how they are measured.
176. Poster pertaining to some aspect of weather – types of directions of winds, pressure changes, clouds, precipitation.
177. 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.
178. Poster showing how exhibitor did a weather experiment and the results of the experiment.
179. Poster showing what to do during a tornado, hurricane, or blizzard.
180. Scrapbook, labeled – showing different kinds of clouds.
181. Scrapbook of activities in the weather project.
182. Weather instrument made, accompanied with records kept while using the instrument for 1 month.
183. Any other weather exhibit not listed above, identify.

## CLASS G: SHOOTING SPORTS

### Lot Numbers:

- 184. Display: Various empty shell casings mounted with a description of the gun and their use.
- 185. Display or Poster: 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.
- 186. Display or Poster: Identify common game animals and birds with notes on identification, feeding habits, habitat requirements, and state hunting regulations.
- 187. Display or Poster: Identify the parts of a gun or bow with a key to the purpose of each part.
- 188. Display or Poster: Related to the archery project.
- 189. Hunting Diary.
- 190. Illustrated poster on proper care and maintenance of a gun or bow.
- 191. Safety poster showing 4 safety hazards when handling a gun or bow.
- 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. Any aspect of fishing safety.
- 195. Display: 2 or more lures (made from recycled materials).
- 196. Display: 10 knots for fish/boating (mounted and labeled).
- 197. Display or Poster: Any aspect of boating or fishing safety.
- 198. Display or Poster: Show parts of fishing reel.
- 199. Poster: Explain how to use spinning rod and reel.
- 200. Poster: Fish ID Guessing Game – Fish pictures – fish names with flip cover.
- 201. Poster: Fish Handling (preserving or preparing).
- 202. Poster: Show 5 fish in their habitat.
- 203. Poster: Show Fish Adaptations.
- 204. Poster: Tips for Catch and Release – 5 tips minimum (14"x22").
- 205. Tackle box inventory check list with tackle box.
- 206. Any other fishing exhibit not listed, identify.

## CLASS I: OUTDOOR ADVENTURES

### Lot Numbers:

- 207. An original poem, song, or story about outdoor adventures.
- 208. Display: Adventure equipment, parts labeled with function.
- 209. Display: First aid items, labeled along with function.
- 210. Display or Poster: Safety for outdoor adventure activities.
- 211. Display or Poster: Outdoor survival.
- 212. Poster: 6 family adventure photographs with captions.
- 213. Poster: Careers related to outdoor adventures.
- 214. Poster: Map reading and orienteering.
- 215. Poster: Show food, supplies and equipment needed for a 3 day proposed family adventure, include a detail itemized budget.
- 216. Scrapbook or Collection 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. Display: Food Web.
- 219. Display: Human Effects on the Environment.
- 220. Display: Soil and Water Conservation.
- 221. Display: Soil Erosion.
- 222. Exhibit on clouds, air pressure, wind, heat.
- 223. Exhibit on geological events, such as glaciers, earthquakes, or volcanoes.
- 224. Exhibit on interrelationships of humans, plants, wildlife, water, air, and sun.
- 225. Exhibit of jewelry or craft made from rocks.
- 226. Exhibit of a rock collection, fossil, or mineral (labeled).
- 227. Exhibit of soils from Wisconsin.
- 228. Any other geology exhibit not listed, identify.

# 2021

## CLASS K: RECYCLING

### Lot Numbers:

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

## CLASS L: HOME ENERGY

### Lot Numbers:

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