

JUNIOR FAIR NATURAL SCIENCES

Department 16 – Superintendent – Ed Zahn – 920-682-8433

1. Judging Day (Individual Conference Judging) – **Monday, August 23**, as follows: 10am to 2pm and 2:30pm to 6pm.
2. Release Day – **Sunday, August 29**, between 7pm and 9pm.
3. No changes will be allowed after registration forms are submitted.
4. Limit of four (4) Exhibits per each class (i.e., birds, insects, forestry, etc).
5. 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".
6. Entry tag must be stapled to the upper right hand corner of the poster.
7. Open to any youth enrolled in a 4-H Nature Space Project or doing equivalent work in this type of project. Exhibitor is limited to showing only those specific areas enrolled in.
8. Displays must be no larger than 2"x4" (example: miniature farm display).
9. All "Any Other" entries must be listed on the registration form.

Premiums for Lot Numbers 100-245 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. Scrapbook of 20 bird pictures, either drawings or cutouts, or birds time seen and identified by the exhibitor. Each drawing must be properly labeled with food habits, migratory habits, habitat, and nesting of each bird. | 107. Chart of 20 birds recognized by sound and a description of the sound, or poster on different kinds of bird songs and when they are used. |
| 101. Birdhouse, simple. | 108. Poster on migration of 1 bird. |
| 102. Birdfeeder assembled from a milk carton, plastic bottle, log, etc. | 109. 2 birdhouses made for 2 different species of birds or one martin house, wood. |
| 103. Poster with pictures or drawings showing different species of birds in relation to a bird's parts such as beak, feet, feathers, head, etc. | 110. Birdfeeder, wood. |
| 104. Record of birds observed – listing species, date, place seen, number, and weather condition. | 111. Display of bird food from pellets, house mixture, commercial bird food, or a collection of plant or shrubs that provide food for birds. |
| 105. Poster of one type of bird behavior, showing difference between species (perching, flying, movement on the grounds, etc). | 112. Observation notes on one activity in the bird project (behavior, nests, feeding, habitats, adaptations, migration, etc). |
| 106. Scrapbook of different bird adaptations, list purpose of adaptations. | 113. Record of birds seen, listing bird species, date, time, place seen, number, and weather conditions. |
| | 114. Scrapbook of activities in the bird project during the past year. Includes field trips, photography, bird banding, feeding, etc. |

CLASS B: ENTOMOLOGY

1. Collections are to be labeled with a minimum of common names, when collected (plus county and state), date collected and your name or initials.
2. No purchased insects allowed.
3. Cigar boxes or gift boxes maybe used for collections.

Lot Numbers:

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| 115. Drawing or model showing the parts of an insect. | city park, garden, wetland, etc), correctly identified and labeled. |
| 116. Poster or display on life cycle of 2 insects. | |
| 117. Scrapbook of pictures of 20 colorful insects, either drawings or cutouts. Give common name and habitat. | 122. Collection of 10 different insects attracted to light, correctly identified and labeled. |
| 118. Poster or display showing the results of an insect experiment. | 123. Collection of 5 cocoons or chrysalises, correctly identified and labeled. |
| 119. Poster or display of a harmful insect and its control, and a helpful insect and its use. | 124. Collection of 10 colorful insects, correctly identified and labeled. |
| 120. Continuation of 20 different insects, correctly identified and labeled (at least 10 new insects each year). | 125. Continuation of 20 insects of the same order (not moths or butterflies), identified and labeled (at least 10 new insects each year). |
| 121. Collection of 12 insects showing the difference between insects from 2 different habitats (hayfield, | 126. Collection of 10 moths and 10 butterflies, identified and labeled. |

127. Continuation of 50 different insects, correctly identified and labeled (at least 10 new insects each year).

128. Continuation of 30 insects from 3 different orders, correctly identified and labeled (at least 10 new insects each year).

129. Any other project on insects not listed above.

CLASS C: TREES

WISCONSIN TREES AND WOODS

Lot Numbers:

130. Scrapbook of a tree's personality profiles for 4 different types of trees using drawings, pictures, or rubbings. Include shape of tree, buds, bark, flowers, fruit, or seeds.

131. Poster on leaf identified with drawings or samples of each of the following types of leaves: simple, compound, needlelike, opposite, alternate, whirled, deciduous, and coniferous.

132. Collection of 15 important native leaves or leaf prints in a scrapbook, label with name of tree, date, and location of collection.

133. Poster showing how a tree grows, requirements for growth, or cross section of a tree.

134. Scrapbook of observations of one tree during the project year. Include pictures, drawings, growth measurement, etc.

135. Poster or booklet showing species in 3 different environments (top of hill, wetland, shore, lake, etc).

136. Poster or display showing damages and disease problems in trees.

137. Display of edible parts of 10 trees. Include species, part of tree eaters, state or country of where tree grows.

138. Collection of 15 different tree seeds, properly labeled.

139. Any other project not listed above.

FOREST MANAGEMENT

Lot Numbers:

140. Biltmore and height estimate stick made and tally sheet of 15,000 board feet of trees.

141. Map showing where trees were planted and a report on why they were planted and their potential use.

142. Map of existing woodlot and a management plan. Tell what was done this year and potential use of the trees.

143. One year seedling or cutting grown.

144. Collection of 15 different tree seeds, properly labeled.

145. Any other project not listed above.

MAKING MAPLE SYRUP

Lot Numbers:

146. Maple Syrup – 1 pint, must be in a certified or industrial canning jar, ring attached.

147. Maple Syrup Products.

148. Photo record showing steps in making maple syrup.

149. Any other project not listed above.

CLASS D: WILDLIFE

Lot Numbers:

150. A display consisting of a wildlife cover map of your farm or yard showing plans for improvements and which one is started.

151. Scrapbook of 20 wild animals (pictures or drawings) found in Manitowoc County with notes on their feeding habits, reproduction, and habitat requirements. May include mammals, birds, insects, reptiles, etc.

152. Scrapbook of 15 mounted plant specimens which are important wildlife food plants.

153. Photo story of a pheasant raising project.

154. Scrapbook on a winter bird feeding program with pictures and records of birds seen.

155. Plaster casts of 6 different wild animal tracks, mounted on wood or other firm surface.

156. Any other project not listed above.

CLASS E: FRUIT

Lot Numbers:

157. Grades 3-5 – Collect, press, mount, and label 15 wildflowers.
158. Grades 6-8 – Collect, press, mount, and label 20 wildflowers.
159. Grades 9-13 – Collect, press, mount, and label 25 wildflowers selected from at least 2 different habitats (ex: marsh, bog, prairie, etc).
160. Collect a single blossom of a flower and label all of the parts.
161. Make a poster or scrapbook showing the life cycle of a plant. Using pressed specimens to show each stage.
162. Collect, press, mount, and label the leaves of plants showing different leaf arrangements, types of leaves, and leaf margins.
163. Collect, mount, and label at least 15 kinds of wildflower seeds showing various adaptations to dispersal of wind, water, birds, and mammals.
164. Photos of 10 wildflowers, properly identified.
165. Collect, press, mount, and label 5 kinds of native ferns.
166. Collect, press, mount, and label 8 wildflowers from 2 families and list characteristics of each family.
167. Collect, mount, and label 10 flower specimens of native shrubs or vines.
168. Poster with pictures of wildflowers that are protected by state law.

CLASS F: WEATHER

Lot Numbers:

169. 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.
170. Chart of daily high temperature (from newspaper or TV of 4 different cities in different parts of the state or country for 2 weeks.
171. Poster showing how exhibitor did a weather experiment and the results of the experiment.
172. Poster showing what to do during a tornado, hurricane, or blizzard.
173. Chart showing type of weather and temperature each day for 2 months at your home. Take the temperature at the same time each day.
174. A weather instrument made, accompanied with records kept while using the instrument for 1 month.
175. A chart showing daily variations in temperature – morning and evening – for a 2 month period in Manitowoc County.
176. Poster on the 4 elements of weather and how they are measured.
177. Poster pertaining to some aspect of weather – types of directions of winds, pressure changes, clouds, precipitation.
178. Scrapbook, labeled – showing different kinds of clouds.
179. Scrapbook of activities in the weather project.
180. Any other project not listed above.

CLASS G: SHOOTING SPORTS

Lot Numbers:

181. Safety poster showing 4 safety hazards when handling a gun.
182. Illustrated poster on proper care and maintenance of a gun.
183. 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 weapon.
184. Poster or display identifying the parts of a gun with a key to the purpose of each part.
185. Display of various empty shell casings mounted with a description of the gun and their use.
186. Poster or display related to the archery project.
187. Display of items related to archery project.
188. Display of your hunting diary.
189. Poster or display identifying common game animals and birds with notes on identification, feeding habits, habitat requirements, and state hunting regulations.
190. Any other exhibit not listed above.

CLASS H: SPORTSFISHING

Lot Numbers:

191. Display of 10 purchased artificial baits, properly labeled with how and where to use, what fish they will catch, and what natural food they imitate.
192. An exhibit of 2 or more lures made from recycled materials.
193. 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 laws regulating the taking of fish.
194. Scrapbook of life in a pond, creek, or lake using pictures, drawings, and written observations.
195. Poster on proper handling and cleaning of fish.
196. Poster on safety tips for fishing. (Boat safety, ice or water safety, first aid, etc).
197. Scrapbook of your activities in the fishing project. Include fishing trips, seining, photos, stories, fishing journal, pages, etc.
198. Exhibit of 5 kinds of knots used in either fishing or boating.
199. Plaster cast of a fish the Exhibitor caught.
200. 2 homemade flies or plugs mounted on a 10"x10" card.
201. Any other project not mentioned above.

CLASS I: CROSS COUNTRY SKIING

Lot Numbers:

202. Poster or display on cross country ski techniques or safety rules.
203. Poster or display on basic cross country clothing or equipment needed and the proper sizing of it.
204. Poster or display on proper care of equipment such as waxing, storage, etc.
205. Scrapbook showing the Exhibitor's activities in cross country skiing (trips, ski patrol, trail improvement, winter ecology, study, etc).
206. Poster or display showing the difference between cross country and downhill ski equipment.
207. Any other project not mentioned above.

CLASS J: CAMPING AND BACKPACKING

Lot Numbers:

208. Poster or scrapbook on some aspect of fire building (fire safety, types of fire and uses, how to start, fire ingredients, etc).
209. Assemble a first aid kit for camping and be able to demonstrate use of contents.
210. Poster on camp safety showing hazards and corrections.
211. Display comparing 3 different types of sleeping bags and their uses or appropriate clothing for 3 types of weather.
212. Scrapbook of Exhibitor's camping activities.
213. Scrapbook on proper camp equipment.
214. Table centerpiece from materials found at campsite (nothing living).
215. Homemade camp equipment (buddy burner, vagabond stove, reflector oven, lashed camp equipment, tools, etc).
216. Scrapbook on camp meal planning and cleanliness.
217. Any other project not mentioned above.

CLASS K: GEOLOGY

Lot Numbers:

218. Collection of rocks found, properly identified to include name and where found.
219. Collection of mineral, properly identified.
220. Collection of fossils found locally, properly identified to include where found.
221. Poster showing one of the following: hardness scale, mineral luster, mineral structure, mineral cleavage, and mineral fracture.
222. Any other project not mentioned above.

CLASS L: RECYCLING

Lot Numbers:

223. An article made from discard materials.
224. Photo exhibit of a recycling activity Exhibitor participated in.
225. Poster promoting recycling.
226. Scrapbook on Exhibitor's activities in the recycling project.
227. A poster showing new products made from recycled material.
228. Model of a landfill or incinerator with explanation of how it works.
229. Poster on how compost is made.
230. Poster of clippings or articles on the environment.
231. Any other project not listed above.

Junior Fair Natural Sciences

Department 16

CLASS M: HOME ENERGY

Lot Numbers:

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| 232. Notebook showing the results and conclusions 2 energy experiments or activities. | 236. Solar hot dog cooker. |
| 233. Sun dried slices from 1 apple and 1 pear. | 237. Poster promoting good energy conservation. |
| 234. Photo story of how to make compost. | 238. Scrapbook of energy saving ideas. |
| 235. Notebook including results of an energy hunt, home energy survey, and a story on conclusions. | 239. Any other project not listed above. |

CLASS N: BEES AND HONEY

1. Extracted and Granulated Honey must be in new #1 jars with new covers, used jars and covers will be disqualified.

Lot Numbers:

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| 240. Jar of Honey. | 243. Scrapbook or educational poster of Exhibitor's activities in the Bee Project. |
| 241. Jar of granulated Honey. | 244. Items created out of bee's wax. |
| 242. Comb of Honey wrapped, either a 4"x4" or round individual combo. | 245. Any other project not listed above. |