

JUNIOR FAIR NATURAL SCIENCES

Department 16
Superintendent – Ed Zahn
920-682-8433

1. Individual conference judging will be on Monday, August 18, as follows: 10:00 a.m. to 2:00 p.m. and 2:30 p.m. to 6:00 p.m.
No changes will be allowed after the registration blank is submitted.
2. Release time is Sunday, August 24, from 7:00 p.m. to 9:00 p.m.
3. Limit of 4 Exhibits per each project area (I.e. Birds, Insects, Forestry, etc.) All posters are 14" x 22". Notebooks may be used for leaf collections in Forestry. Posters in Wildflowers only be a minimum of 14" x 22" to a maximum of 22" x 28".
4. Entry tag must be stapled to the upper right hand corner of poster.
5. Open to any youth enrolled in a 4-H Nature space project or doing equivalent work in this type of project. You are limited to showing only those specific areas you are enrolled.
6. Displays can be no larger than 2" x 4" (ex: miniature farm display)
7. All "Any Other" entries must be listed on the registration blank.

Premiums for classes 100 – 246: Blue Ribbon - \$2.00 Red Ribbon - \$1.75 White Ribbon - \$1.50 Pink Ribbon - \$1.25

CLASS A - BIRDS

100. Scrapbook of 20 bird pictures, either drawings or cutouts, or birds time seen and identified by the member. Each drawing properly labeled with food habits, migratory habits, habitat and nesting of each bird.
101. Birdhouse, simple
102. A birdfeeder assembled from a milk carton, plastic bottle, log, etc.
103. Poster with pictures or drawings showing different species of birds in relation to a bird parts such as beak, feet, feathers, head etc.
104. Record of birds observed, listing species, date, place and seen, number, and weather condition.
105. Poster of one type bird behavior, showing difference between species (perching, flying, movement on the grounds, etc.)
106. Scrapbook of different bird adaptations, list purpose of adaptations.
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.
108. Poster on migration of 1 bird.
109. 2 bird houses made for 2 different species of birds or one martin house, wood.
110. A birdfeeder, wood.
111. Display of bird food from pellets, house mixture, commercial bird food or a collection of plant or shrubs that provide food for birds.
112. Observation notes on one activity in the bird project (behavior, nests, feeding, habitats, adaptations, migration, etc.)
113. Record of birds seen, listing bird species, date, time and 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

Collections are to be labeled with a minimum of common names, when collected (plus county & state), date collected & your name or initials.

No purchased insects allowed.

Cigar boxes or gift boxes may be used for collections.

116. Drawing or model showing the parts of an insect.
117. Poster or display on life cycle of 2 insects
118. Scrapbook of pictures of 20 colorful insects, either drawings or cut-outs. Give common name and habitat.
119. Poster or display showing the results of an insect experiment.
120. Poster or display of a harmful insect and its control, and a helpful insect and its use.
121. Continuation of 20 different insects, correctly identified & labeled (at least 10 new insects each year).
122. Collection of 12 insects showing difference between insects from 2 different habitats (hayfield, city park, garden, wetland, etc.) correctly identified and labeled.
123. Collection of 10 different insects attracted to light, correctly identified and labeled.
124. Collection of 5 cocoons or chrysalises, correctly identified and labeled.
125. Collection of 10 colorful insects, correctly identified and labeled.
126. Continuation of 20 insect of the same order (not moths or butterflies) identified and labeled (at least 10 new insects each year).
127. Collection of 10 moths and 10 butterflies, identified and labeled.
128. Continuation of 50 different insects, correctly identified and labeled (at least 10 new insects each yr.)
129. Continuation of 30 insects from 3 different orders, correctly identified and labeled (at least 10 new insects each year)
130. Any other project on insects not listed above.

CLASS C - TREES

WISCONSIN TREES AND WOODS

131. 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.
132. 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.
133. Collection of 15 important native leaves or leaf prints in a scrapbook, label with name of tree, date & location of collection.
134. Poster showing how a tree grows, requirements for growth or cross section of a tree.
135. Scrapbook of observations of one tree during the project year. Include pictures drawings, growth measurements, etc.
136. Poster or booklet showing species in 3 different environments (top of hill, wetland, shore or lake, etc.)
137. Poster or display showing damages and disease problems in tree.
138. Display of edible parts of 10 trees. Include species, part of tree eaters, state or country where it grows.
139. Collection of 15 different tree seeds, properly labeled.
140. Any other project not listed above.

FOREST MANAGEMENT

141. Biltmore and height estimate stick made and tally sheet of 15,000 board feet of trees.
142. Map showing where trees were planted and a report on why they were planted and their potential use.
143. Map of existing woodlot and a management plan. Tell what was done this year and the potential use of the trees.
144. One year seedling or cutting grown.
145. Collection of 15 different tree seeds, properly labeled.
146. Any other project not listed above.

MAKING MAPLE SYRUP

147. Maple Syrup -- 1 pint, must be in a certified or industrial canning jar, ring attached
148. Maple Syrup products.
149. Photo record showing steps in making maple syrup.
150. Any other project not listed above.

CLASS D - WILDLIFE

151. A display consisting of a wildlife cover map of your farm or yard showing plans for improvements and which one are started.
152. 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.)
153. A scrapbook of 15 mounted plant specimens which are important wildlife food plants.
154. Photo story of a pheasant raising project.
155. Scrapbook on a winter bird feeding program with pictures and records of birds seen.
156. Plaster casts of 6 different wild animal tracks, mounted on wood or other firm surface.
157. Any other project not listed above.

CLASS E - WILDFLOWERS

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

JR FAIR NATURAL SCIENCES
DEPARTMENT 16 (CONT.)

CLASS F - WEATHER

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

CLASS G - SHOOTING SPORTS

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

CLASS H - SPORTSFISHING

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

CLASS I - CROSS COUNTRY SKIING & WINTER TRAVEL

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

CLASS J - CAMPING & BACKPACKING

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

JR FAIR NATURAL SCIENCES
DEPARTMENT 16 (CONT.)

CLASS K - GEOLOGY

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

CLASS L - RECYCLING

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

CLASS M - HOME ENERGY

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

CLASS N - BEES AND HONEY

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

- 241. Jar of Honey
- 242. Jar of granulated Honey
- 243. Comb of Honey wrapped, either a 4"x4" or round individual comb.
- 244. Scrapbook/ educational poster of your activities in the Bee Project
- 245. Items created out of bees wax.
- 246. Any other project not listed above