

## DEPARTMENT 80 - NATURAL RESOURCES 4-H

**JUDGING:**

**EXHIBITS RELEASED:**

**4-H SUPERINTENDENT:**

**FAIR SUPERINTENDENTS:**

**SUNDAY, AUGUST 15, 10:00 AM TO 2:00 PM**

**SUNDAY, AUGUST 22, 8:00 PM**

**BETTY NEBEL 586-468-7112**

**ALAYNE WATERSTRAAT 586-727-3030**

**JIM ECKHOUT, ROB KITCHEN AND ROB TIBBITS**

**RULES FOR DEPARTMENT 80:**

1. More than one entry may be made within a Section, but **ONLY ONE ENTRY PER CLASS.**

**Learning Objective:** This DEPARTMENT 26s a fast growing career area for all youth. The following classes will promote environmental awareness and stewardship. Will create involvement with communities and organizations and will encourage exploration of environmental science concerns and technological solutions.

**PREMIUMS FOR DEPARTMENT 80, SECTIONS 1 THRU 12:**

A - \$4.00      B - \$3.00      \$2.00

**SECTION 1 - WILDFLOWERS**

**CLASS:**

1. Wildflowers I - Educational Exhibit - poster or displays, pictures, charts, reports, etc., which include wildflowers from three (3) different habitats. Collect and press (or photograph of protected wildflower) 20 wildflowers and complete study sheet of each.
2. Wildflowers II - Educational Exhibit - poster or displays, pictures, charts, reports, etc, which includes showing parts of a flower. Collect and press (Or photograph of protected wildflower) 24 additional wildflowers and complete study sheet of each.
3. Wildflowers III - Educational Exhibit - poster or displays, pictures, charts, reports, etc., which show three (3) different leaf types or flower fluorescents. Collect, press and complete study sheets for 15 plants with examples of the above leaf and flower arrangements, each which must be designated.
4. Wildflowers - Advanced Educational Exhibit - posters or displays, pictures, charts, reports, etc., which explain the advanced project. The plans and requirements for this are in the 4-H office.

**SECTION 2 - BIRDS**

**CLASS:**

1. A display of items pictures, charts, models, etc., related to this project and a minimum of 15 bird identification sheets. Notebooks or workbooks are a part of a total exhibit.
2. A detailed exhibit with a brief explanation of a selected activity in this area.
3. A display of items, pictures, charts, models, etc., related to this project and completed 15 additional bird study sheets with species from 10 different avian groups. Notebooks and workbooks are a part of a total exhibit.
4. A display of items, pictures, charts, models, etc., related to this project. Complete 25 bird study sheets representing 10 or more avian groups. Notebooks and workbooks are a part of a total exhibit.



**SECTION 3 - ENTOMOLOGY**

**CLASS:**

1. Beginner Entomologist - Exhibit collection made of at least 25 insects from 5 different classes.
2. Jr. Entomologist - Exhibit collection made of an additional 20 insects. Include educational poster or chart.
3. Sr. Entomologist - Exhibit collection made of an additional 15 insects. Include educational poster or chart.
4. Entomology Science - An educational exhibit presenting scientific entomology information. Notebook or workbook, if exhibited, must be a part of a total exhibit including other item or items.



## DEPARTMENT 80 - NATURAL RESOURCES 4-H (contd.)

### SECTION 4 - FORESTRY

#### CLASS:

1. A detailed exhibit with a brief explanation of a selected activity in this area.

### SECTION 5 - FISH

#### CLASS:

1. A detailed exhibit with a brief explanation of a selected activity in this area.

### SECTION 6 - WATER, SOIL, & AIR

#### CLASS:

1. Wetlands
2. Groundwater
3. Water Monitoring
  - a) Chemical
  - b) Biological Organisms
4. Water Conservation
5. Good Soil practices
  - A) Biodegradable Amenities
  - B) Good fertilizing practices
  - C) Erosion control
6. Indoor and Outdoor Air Quality



### SECTION 7 - ROCKS AND MINERALS

#### RULES:

1. All exhibits are to be labeled. You may display rocks, minerals, fossils, crystal collections or any combination of educational information. Include sample or photo with your display.

#### CLASS:

1. Rocks
2. Minerals
3. Fossils
4. Crystals
5. Any combination
6. Collection of 10 rocks and/or minerals with 2 samples of products from each.
7. An educational exhibit showing one aspect of geological history of Michigan.
8. An educational exhibit showing formation, recovery and use of a fossil fuel.



### SECTION 8 - WILDLIFE WHERE YOU LIVE

#### CLASS:

1. A detailed exhibit with brief explanation of a selected activity in this area.

### SECTION 9- LIFE SCIENCES

#### CLASS:

1. Biology - Exhibit a study of life processes and living organisms that illustrates concepts like food chains, balance in nature, life cycles, evolution and other biological concepts.
2. Archeology - Exhibit a study of the remains of past human life and cultures.
3. Paleontology - Exhibit a study of fossils, dinosaurs, etc.

### SECTION 10 - LIQUID, SOLID & HAZARDOUS WASTE MANAGEMENT

#### RULES:

1. All exhibits are required to have a notebook or poster of explanation.

#### CLASS:

1. Recycling
2. Waste Reduction
3. Composting



### SECTION 11

### ENVIRONMENTAL CAREERS EXPLORATION

#### CLASS:

1. Detailed exhibit of career shadowing experience or interview(s) with environmental professional(s). Notebook or journal must be part of the total exhibit.

### SECTION 12

### ENVIRONMENTAL SERVICE LEARNING/COMMUNITY SERVICE

#### CLASS:

1. Detailed exhibit of involvement with a community organization (example: Clinton River Watershed) that promotes environmental awareness and stewardship. Notebook or journal must be part of total exhibit.

### SECTION 13 - SWEEPSTAKES

#### RULES:

- Sweepstake Awards are made by selection. **DO NOT ENTER IN CLASS 1.**

#### CLASS:

1. Best of Show

