
RANGE MANAGEMENT

The purpose of this category is to help 4-H'ers identify and collect range plants. In addition, participants will learn the basics of range management, and Nebraska's range. Through the creation of range boards 4-H'ers will become more proficient in knowledge of Nebraska's range.

Refer to **General Rules** for Ribbon Premium information.

Rules:

1. Each exhibit must be properly identified with Unit and Class.
2. All plant displays and display covers must be the result of the current year's work.
3. Plant identification and lists of appropriate plants in each category (grasses, forbs, shrubs, and grass-like plants) can be found in the **Range Judging Handbook and Contest Guide** (EC150, Revised July 2016), **Common Grasses of Nebraska** (EC170), and **Common Forbs and Shrubs of Nebraska** (EC118).
4. The purpose of these exhibits is to demonstrate to the public the benefits from the study and application of crop, weed, range, and soil sciences to solving problems in management, conservation, sustainability, and environmental protection.
5. For guidelines on specific projects, refer to appropriate project manuals. Premier 4-H Science Award is available in this area.
6. **Books (Classes 1-6):** For books, plants must be mounted on sheets that are no larger than 14 inches wide by 14 inches high. Plants should be glued rather than taped and the mounts should be protected with a clear cover. Proper plant mount should include root, as well as stem and leaf tissue. Exhibits will be judged based on completeness of plant mount, accuracy of identification, labeling, neatness, and conformation to project requirements.
Each completed mount must have the following information (see example below) in the lower right corner of the mounting sheet: Scientific name (in italic or underlined), with authority - Common name. - County of collection. - Collection date. - Collector's name. - Personal collection number, indicating order that plants were collected in your personal collection, - Other information, depending on class selected, i.e., value and importance, life span, growth season, origin, major types of range plants. This information should be typed or printed neatly.

Tag example:

Scientific Name: <i>Schizachyrium scoparium</i> (Michx.) Nash
Common Name: Big bluestem
County of Collection: Cedar County
Collection Date: 6 August 2018
Collector's Name: Joe Smith
Personal collection Number: 37
Value and Importance
Livestock Forage: High
Wildlife Habitat: High
Wildlife Food: Medium
Or Life Span: Perennial
Or Season of Growth: Warm Season
Or Origin: Native

7. **Displays (Class 7):** The purpose of the display is to tell an educational story to those that view the display. The display is a visual representation (pictures, charts, graphs) no larger than 28 inches by 28 inches on plywood or poster board. The display should be neatly titled. Make sure to label display with exhibitor's name, address, and county on the back side (preferably top right corner).

8. **Boards (Classes 8-9):** Boards should be no larger than 30 inches wide by 36 inches tall. Boards should be adequately labeled.

9. Please see General Rules for more details.

Resources:

Reading the Range: Learn the names of range plants; Identify and collect range plants; Explore the basics of range management.

URL: https://4hcurriculum.unl.edu/index.php/main/program_project/116

Using Nebraska Range: Study Nebraska's grassland heritage; Understand plant vigor and the effects of grazing; Identify range sites; Calculate range conditions; Understand stocking rates

URL: https://4hcurriculum.unl.edu/index.php/main/program_project/117

Weed Science: Learn the names of range plants; Identify and collect range plants; Explore the basics of range management.

URL: https://4hcurriculum.unl.edu/index.php/main/program_project/118

D 330 001 VALUE AND IMPORTANCE FOR LIVESTOCK FORAGE AND WILDLIFE HABITAT AND FOOD BOOK A collection of 12 different plant mounts, with 4 classified as high value, 4 as medium value, and 4 as low value for livestock forage, wildlife habitat, or wildlife food. Value and importance classifications can be found in the Range Judging Handbook and Contest Guide, Appendix Table 1 (EC150, Revised July 2016) starting on page 42. Plants can consist of any combination of grasses, grass-like plants, forbs, or shrubs. Assemble plant mounts in order of high, medium, and low value and importance. Label each plant mount with its value and importance classifications for each of the three areas: Livestock Forage, Wildlife Habitat, Wildlife Food.

D 330 002 LIFE SPAN BOOK A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs.

D 330 003 GROWTH SEASON BOOK A collection of 6 cool-season grass mounts and 6 warm-season grass mounts.

D 330 004 ORIGIN BOOK A collection of plant mounts of 6 native range grasses and 6 introduced grasses. Introduced grasses are not from North America and often used to seed pastures.

D 330 005 MAJOR TYPES OF RANGE PLANTS BOOK A collection of plant mounts of 3 grasses, 3 forbs, 3 grass-like, and 3 shrubs.

**DIXON COUNTY FAIRBOOK 2023
DEPARTMENT D
Range Management**



D 330 006 RANGE PLANT COLLECTION BOOK A collection of 12 range plant mounts with something in common (i.e. poisonous to cattle, or historically used as food by Native Americans, or dye plants, or favorite antelope forage, etc.). Include a short paragraph in the front of the book which describes what the plants have in common and why you have chosen to collect them.

D 330 007 PARTS OF A RANGE PLANT POSTER Mount a range plant on a poster board. Label all the plant parts. Include the plant label in the lower right corner, including the scientific and common name of the plant. Put your name and 4-H county on the back of the poster.

D 330 008 SPECIAL STUDY BOARD A display of the results of a clipping study, a degree of use study, range site study, etc. A short essay must accompany the display to explain the reason for the study, what was learned, and study results. This should be placed in a sheet cover attached to the board.

D 330 009 JUNIOR RANCHER BOARD This exhibit should include a ranch map with a record book or an appropriate educational display on some phase of rangeland or livestock management. A short essay must accompany the display to explain the purpose of the rancher board, what was learned, etc.