

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. SF

Guidelines for Boards: (Classes 8-9)

Boards should be no larger than 30" wide by 36" tall. Boards should be adequately labeled.

**CLASS 8** - 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 and should be placed in a sheet cover attached to the board. SF

**CLASS 9** - 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. SF

## DEPARTMENT G - AGRONOMY

### DEPARTMENT G, DIVISION 750 - FIELD CROPS

**Premiums: Purple, \$4.00; Blue, \$3.00; Red, \$2.50; White, \$2.00**

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. For guidelines on specific projects, refer to appropriate project manuals.

Individuals in the crop production, field crops project may exhibit grain or plants or prepare an educational display representing their project.

Grain or Plant Exhibits (Classes 1-5): A completed Crop Production Worksheet (available at: <https://cropwatch.unl.edu/Youth/Documents/Crop%20Production%20Project%20Worksheet%20Final.pdf>) must accompany grain and plant exhibits or it will automatically be deducted one ribbon placing. The worksheet must include the exhibitors name, address, county, plant hybrid or variety, plant population, whether crop production was irrigated or dryland, and general information including farm cropping history, soil type and weather effects. **The worksheet also must include an economic analysis of the project, listing individual expenses and income, on a per acre basis.** Other topics to discuss are the selection of variety or hybrid, impacts of tillage and conservation practices, inputs (fuel, fertilizer, irrigation, labor, pesticides, etc), any observations made during the growing season, and what you learned from your crops project. The worksheet counts as 50% of the total when judged. Worksheet must be the original work of the individual exhibitor or it will be deducted one ribbon placing. Attach the worksheet to the entry in a clear plastic cover such that it can be read without removing it from the cover. In addition to the worksheet, grain and plant exhibits will be judged on condition, appearance (i.e. disease and insect damage, grain fill), uniformity (size, shape, color, maturity), and quality of exhibit.

Grain exhibits must be one gallon per sample. Grain exhibits harvested in the fall (e.g. corn or soybeans) may be from the previous year's project.

Plant exhibits, with the exception of ears of corn, must be the result of the current year's

project.

- Corn 10 whole ears or 3 stalks (cut at ground level with no roots or soil and bound together);
- Grain Sorghum - 4 stalks (cut at ground level and bound together);
- Soybeans - 6 stalks (cut at ground level and bound together);
- Small Grains (oats, barley, wheat, triticale) - sheaf of heads 2 inches in diameter at top tie with stems about 24" long.
- Other crops (alfalfa, millet, etc.) - sheaf of stems 3 inches in diameter at top tied with stems cut at ground level or half size small square bale.

**CLASS 1** - Corn (includes yellow, white, pop, waxy or any other type). SF

**CLASS 2** - Soybeans SF

**CLASS 3** - Oats SF

**CLASS 4** - Wheat SF

**CLASS 5** - Any other crop (includes grain sorghum, dry beans, sugar beet, millets, barley, rye, triticale, amaranth, mung bean, canola, forage sorghum, alfalfa, safflower, etc.). SF

Guidelines for all Displays (Classes 6-10): 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" wide by 28" tall on plywood or poster board. The display should be neatly titled. Make sure to label display with exhibitor's name, address, and county on back side. Explain pictures and graphs clearly and concisely. Consider creativity and neatness.

**Each display must have a one page essay (minimum) explaining why the exhibitor chose the area of display and what they learned from their project.** Include any references used. The essay should be in a clear plastic cover with the exhibitor's name outside. If display does not have an essay, it will automatically be deducted one ribbon placing.

**CLASS 6** - Crop Production Display - The purpose of this class is to allow original and creative exhibits that contain educational information about crop production aspects, such as crop scouting, alternative crops, pest management, etc. SF

**CLASS 7** - Crop Technology Display - Display information about aspects of technology used in crop production, such as genetic engineering, crop breeding, GPS, yield mapping, computers, etc. SF

**CLASS 8** - Crop End Use Display - Display information about the final product or end uses for a crop such as food, feed, fuel or other products. (i.e. corn can be processed into livestock feed, ethanol, plastics, etc. or soybeans can be processed into bio-diesel, pet bedding, crayons, oil, etc.) This should not be about the process of crop production, but focus on an end product(s). SF

**CLASS 9** - Water or Soil Display - Display information about water or soils, such as how soils are being used for crop production, range, conservation, wildlife, or wetland use, or ways to protect or conserve water and soil resources. SF

**CLASS 10** - Career Interview Display - The purpose of this class is to allow youth to investigate a career in agronomy. Youth should interview 1 person that works with crops about such topics as, what parts of their job do they enjoy or dislike, why did they choose that career, what was their education, etc. Include a picture of the person interviewed. SF

**CLASS 11** - Largest Corn Ear - Display one corn ear either from previous years crop or current crop. Ear will be judged for total number of kernels. Not eligible for State Fair. No essay needs to be included. Please include a 3" x 5" card indicating exhibitors name, address and hybrid.

**CLASS 12** - Farm to Table - The exhibit will include a grain plus a baked product using that type of grain. For example, if oats are the grain, then the baked product might be oatmeal muffins. The exhibit should include: 1) One quart of grain, 2) baked product using the type of grain in display (e.g. 3/4 loaf of bread, 4 muffins), 3) recipe, and 4) 1 page or less essay about the grain and the baked product. Include info such as how the grain is produced, why you chose the grain or the baked product, etc.

**DEPARTMENT G, DIVISION 751 - WEED SCIENCE  
(WEEDS & GRASSES)**

**Premiums: Purple, \$4.00; Blue, \$3.00; Red, \$2.50; White, \$2.00**

Any individual in the Conservation, Environment 1, 2, or 3, Reading the Range 1, Using Nebraska Range 2, Crop Production, or Field Crops projects may exhibit a weed book or weed display. At least 15 of the specimens must represent this year's work. For assistance identifying plants, participants can use the Nebraska Department of Agriculture's Weeds of Nebraska and the Great Plains (1994) or Weeds of the Great Plains (2003).

Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness, and conformity to exhibit requirements.

Guidelines for books (Classes 1-2): Plants must be mounted on sheets that are no larger than 14" wide by 14" high. Proper plant mount should include root as well as stem and leaf tissue. Plants should be glued rather than taped and the mounts should be protected with a clear cover. Each completed mount must have the following information in the lower right corner of the mounting sheet: 1) scientific name (in italic or underlined), with authority, 2) common name, 3) county of collection, 4) collection date, 5) collector's name, 6) Personal collection number, indicating the order that plants were collected, in your personal collection. 7) other information depending on class selected, i.e. noxious, life form. This information should be typed or printed very neatly.

**CLASS 1** - Weed Identification Book - A collection of a minimum of 15 plant mounts including at least two of the following prohibited noxious weeds (Canada thistle, musk thistle, plumeless thistle, saltcedar, leafy spurge, purple loosestrife, diffuse knapweed, spotted knapweed, Japanese knotweed, bohemian knotweed, giant knotweed, sericea lespedeza or phragmites), and at least three weeds that are a problem primarily in lawns. SF

**CLASS 2** - Life Span Book - A collection of 7 perennials, 1 biennial, and 7 annual weeds. SF

Guidelines for all Displays (Class 3): 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" by 28" on plywood or poster board. The display should be neatly titled. Make sure to label display with exhibitor's name, address, and county on back side. Explain pictures and graphs clearly and concisely. Each display must have a one page essay explaining why the exhibitor chose the area of display and what they learned from their project. Include any references used. The essay should be in a clear plastic cover with the exhibitor's name outside.

**CLASS 3** - Weed Display - The purpose of this class is to allow original and creative exhibits that contain educational information about weeds, such as interesting information about a weed species, the effects of weed control, herbicide resistant weeds, what makes a weed a weed, or uses for weeds. SF

**DEPARTMENT G - FLOWERS & PLANTS**  
**Premiums: Purple \$4.00; Blue \$3.00; Red \$2.50; White \$2.00**

The cultivar or variety name must be included on all entry cards. Failure to identify the cultivar or variety will drop the entry one ribbon placing. Proper identification is the responsibility of the exhibitor. Identify the cultivar or variety before you bring your exhibit to fair. Be sure to mark your exhibit with your name (this is separate from the entry tag).

Exhibitors must be enrolled in either The World of Flowers or Annual Flowers to exhibit in classes 1-53. Exhibitors may enter one, or up to a maximum of five different flowers from classes 1-53. One entry per class.

Cut flowers: All 3 or 5 stems of cut flowers should be the same cultivar and color, do not mix cultivars and colors. Foliage will be considered when exhibit is judged. A perennial is defined as a plant of which the crown overwinters. An annual is a plant that grows from seed each season, whether self-seeded or planted by the gardener. A biennial is a plant that germinates, grows and overwinters as a crown, blooms the following year and dies. Use plain jars or bottles for cut flower entries. Use appropriate size containers (jar size, opening). Use paper punch on entry card and then attach entry card to jar with string. Each exhibit must also be labeled with name. This labeling should be separate from the entry card.

Cut Flower Annuals and Biennials - 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.

Follow the guidelines in 4-H "Preparing Cut Flowers for Exhibits" 4H227 (revised 2016) (Free Download – <https://unl.box.com/s/2f3a785c67p7qhqasevp6gu6adf3ugon>) when preparing entries for the fair. Copies are available at the Extension Office.

**DEPARTMENT G, DIVISION 770 - FLOWERS**

- CLASS 1** - Aster SF
- CLASS 2** - Bachelor Button SF
- CLASS 3** - Bells of Ireland SF
- CLASS 4** - Browallia SF
- CLASS 5** - Calendula SF
- CLASS 6** - Celosia (crested or plume) 3 stems SF
- CLASS 7** - Cosmos SF
- CLASS 8** - Dahlia SF
- CLASS 9** - Dianthus SF
- CLASS 10** - Foxglove SF
- CLASS 11** - Gladiolus (3 stems) SF
- CLASS 12** - Gomphrena SF
- CLASS 13** - Hollyhock (3 stems) SF
- CLASS 14** - Marigold SF
- CLASS 15** - Pansy SF
- CLASS 16** - Petunia SF