

SECTION IX – PLANT SCIENCE

Agronomy

- The purpose of these exhibits is to demonstrate to the public the benefits from the study and application of crop, range and soil sciences to solving problems in management, conservation, sustainability and environmental protection. For guidelines on specific projects, refer to appropriate project manuals.
- For General Rules visit <https://4h.unl.edu/fairbook/general/rules>

Dept. G – Crop Production

General Information:

- A completed Crop Production Worksheet (available at <https://go.unl.edu/ne4hagronomy>)
 - o must accompany grain and plant exhibits or it will automatically be deducted one ribbon placing. The worksheet must include the exhibitors name and 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.
 - o Corn – 10 ears or 3 stalks (cut at ground level with no soil and bound together);

- o Grain Sorghum -4 stalks (cut at ground level and bound together);
- o Soybeans -6 stalks (cut at ground level and bound together);
- o Small grains (oats barley, wheat, triticale) – sheaf of heads 2 inches in diameter at top tie with stems about 24” long.
- o 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.

Division 750 – Crop Production

- Guidelines for all Displays:
 - o The purpose of the display is to tell an educational story to those that view the display.
 - o The display is a visual representation (pictures, charts, graphs) no larger than 28” wide by 28” on plywood or poster board.
 - o 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.
 - o 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.
 - o The essay should be in a clear plastic cover with the exhibitors name outside.
 - o If a display does not have an essay, it will automatically be deducted one ribbon placing.
- NEW: Special Agronomy Project – Youth experience a crop that is grown, was grown or has the potential to be grown in Nebraska by growing it, researching traits of that crop and determine viability of that crop in the part of the state they live. Each year seeds will be mailed to extension offices across the state. A different seed will be selected every year. Youth will grow seeds in their garden or pots. Written resources materials will be available for youth, in addition to virtual, live or recorded videos/field trips. Youth will be eligible to enter an exhibit at both the county and/or state fair in the agronomy project area.

- sf Class 1 **Corn** - (SF264) - (includes yellow, white, pop, waxy, or any other type)
- sf Class 2 **Soybeans** _(SF264)
- sf Class 3 **Oats** _(SF264)
- sf Class 4 **Wheat** _(SF264)
- sf Class 5 **Any Other Crop-** _(SF264) (includes grain sorghum, alfalfa, millets, barley, rye, triticale, amaranth, dry beans, sugar beet, mung bean, canola, forage sorghum, safflower, etc.)
- sf Class 6 **Crop Production Display** – (SF259) -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** – (SF259) - 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** – (SF259) -Display information about the final product or end uses for a crop, such as food, feed, fuel, 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** – (SF259) -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** – (SF259) -The purpose of this class is to allow youth to investigate a career in agronomy. Youth should interview one 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.

The crop for 2022 is broomcorn sorghum.

- Class 11 **Special Agronomy Project - Educational Exhibit** (SF259) - Educational exhibit based on what was learned from the project. Present information on a poster 14" X 22" either vertical or horizontal arrangement or in a clear plastic report cover. The 4-H member's name, age, full address, and county must be on the back of the poster or report cover. 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.
 - Class 12 **Special Agronomy Project -Video Presentation** - 4-H exhibitor designs a multimedia presentation related to the crop. This could include narration of the growing process, presenting facts about the crop or any other innovative multimedia practices. The presentation should be at least 2 minutes in length and no more than 5 minutes in length, appropriate graphics, sound and either a video clip, animation or voice over and/or original video clip. Any of the following file formats will be accepted: mp4, .mov, .ppt, or .avi.
 - Class 13 **Special Agronomy Project (Freshly Harvested Crop)** Plant exhibits must be the result of the current year's project. Depending on the type of crop selected for the current year:
 - Corn - 10 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.
- Supporting documentation (1/2 to 1 page in length) should include the following:
- Economic Analysis and/or research that supports feasibility of this crop in Nebraska or how the crop has evolved over time.

Other topics to discuss are past/current commercial production of this crop. This includes: 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 about this crop and what you learned from your corps project.

This ½ to 1-page summary counts as 50% of the total when judged. In addition to the summary, 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.

County of collection: Sheridan County

Collection date: 6 July 2014

Collector's name: Dan D. Lion

Personal collection number: 3

Life cycle: Annual

- Displays
- 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 the project. Include any references used.
- The essay should be in a clear plastic cover with the exhibitor's name outside.

Dept. G – Weed Science

General Information:

- Any individual in the Conservation, Environment 1, 2 or 3, Range, Reading the Range 1 or Using Nebraska Range 2, or Crop Production, 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).

- Books
- 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.
- Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness, and conformity to exhibit 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,
 - Collectors name,
 - Personal collection number, indicating order that plants were collected in your personal collection,
 - Other information depending on class selected, i.e., noxious, life form. This information should be typed or printed neatly.

Division 751 – Weed Science

- sf Class 1 **Weed Identification Book** – (SF261) -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** –(SF261) - A collection of 7 perennials, 1 biennial, and 7 annual weeds.
- sf Class 3 **Weed Display Book** – (SF259) -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, effects of weed control, herbicide-resistant weeds, what makes a weed a weed, or uses for weeds.

Resources:

- Field Crops 1 – Discover the world of farming; Learn how plants grow; Learn the value and uses of field crops
https://4hcurriculum.unl.edu/index.php/main/program_project/101

Ex:

Scientific name: *Abutilon theophrasit* Medik.

Common name: Velvetleaf

- Field Crops 2 – Take a soil sample; Learn about products made from field crops; Describe what crops need to grow and at what time.
https://4hcurriculum.unl.edu/index.php/main/program_project/102
- Field Crops 3 – Learn about integrated crop management; Discover hybrid selection; Find out more about harvesting and marketing crops
https://4hcurriculum.unl.edu/index.php/main/program_project/103

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 order that plants were collected in your personal collection.
7. 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.

Dept. D – Range Management

General Information:

- 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. For more resources and materials in this category refer to the resource section at the bottom of the page.
- Each exhibit must be properly identified with Unit and Class.
- All plant displays and display covers must be the result of the current year's work.
- 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, Common Grasses of Nebraska, and Common Forbs and Shrubs of Nebraska.
- 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.
- Books
 - Plants must be mounted on sheets that are no larger than 14" wide x 14" 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 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:

Example:

Plants of Nebraska

Scientific name: *Schizachyrium scoparium* (Michx.) Nash

Common name: Little bluestem

County of collection: Sheridan County

Collection date: 6 August 2017

Collector's name: Joe Smith

Collection number: 37

Value and Importance: Livestock Forage: High

Wildlife Habitat: High

Wildlife Food: Medium

Life Span: Perennial

Season of Growth: Warm Season

Origin: Native

- Displays

- 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" x 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.

- Boards

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

- sf Class 1 **Value and Importance for Livestock Forage and Wildlife Habitat and Food Book** – (SF260) -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 (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.
- sf Class 2 **Life Span Book** – (SF260) - A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs.
- sf Class 3 **Growth Season Book** – (SF260) - A collection of 6 cool-season grass mounts and 6 warm-season grass mounts.
- sf Class 4 **Origin Book** – (SF260) - A collection of 6 native range grass and 6 introduced grass. Introduced grasses are not from North America and often used to seed pastures.
- sf Class 5 **Major Types of Range Plants Book** – (SF260) - A collection of plant mounts of 3 grasses, 3 forbs, 3 grass-like, and 3 shrubs.
- sf Class 6 **Range Plant Collection Book** – (SF260) -A collection of 12 range plant mounts with something in common (ex: 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.
- sf Class 7 **Parts of Range Plant Poster** – (SF259) - 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.
- sf Class 8 **Special Study Board** – (SF260) - A display of the results of a clipping study, a degree of use study, a 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.

- sf Class 9 **Junior Rancher Board** – (SF260) -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.

Resources:

- Reading the Range – Learn the names of range plants; Identify and collect range plants; Explore the basics of range management
https://4hcurriculum.unl.edu/index.php/main/program_project/116
- Using Nebraska Range – Study Nebraska grassland heritage; Understand plant vigor and the effects of grazing; Identify range sites; Calculate range conditions; Understand stocking rates
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
https://4hcurriculum.unl.edu/index.php/main/program_project/118

Dept. G – Floriculture

General Information:

- The purpose of Horticulture is to encourage participants to start and maintain vegetable gardens. In addition, 4-H'ers can participate in planting, growing, and caring for flowers. There is also a special gardening project in this category that 4-H'ers can participate in.
- Youth must be enrolled in the **World of Flowers** and/or **Annual Flowers** projects.
- Classes 1-23: Cut Flower Annuals and Biennials – 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.
- Classes 30-46: Cut Flower Perennials – 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.
- 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 not the Extension staff or office personnel.

- Exhibits entered under an incorrect class number or containing an incorrect number of stems will be dropped one ribbon placing. In classes 23, 45, & 46, do not duplicate entries with the classes listed by using other cultivars or varieties, or entry will be dropped one ribbon placing. For example 4-H's with two cultivars or varieties of marigolds can only enter the marigold class and cannot enter the other cultivar or variety in any other class.
- A perennial is defined as a plant of which the crown over winters.
- 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 over winters as a crown, blooms the following year and dies.
- Foliage will be considered when exhibit is judged.
- Cut Flowers: All 3 or 5 stems should be the same cultivar and color, do not mix cultivars and colors.
- Containers will not be judged; however, they should be clear glass containers that won't tip over and of adequate size to display blooms.
- Follow the guidelines in 4-H "Preparing Cut Flowers for Exhibits" when preparing entries for the fair. (Free Download- <http://4h.unl.edu/web/4hcurriculum/PreparingCutFlowers>)

Division 770 – Flowers

Annuals and biennials – 5 stems of a single variety (cultivar) unless otherwise noted.
Classes 1-26 – (SF106)

- sf Class 1 **Aster**
- sf Class 2 **Bachelor Buttons**
- 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 Class 17 **Salvia**
- sf Class 18 **Snapdragon**
- sf Class 19 **Statice**

- sf Class 20 **Sunflower** (under 3" diameter -5 stems, 3" or more in diameter-3 stems)
- sf Class 21 **Vinca**
- sf Class 22 **Zinnia**
- sf Class 23 **Any other annual or biennial** (under 3" diameter-5 stems, 3" or more in diameter-3 stems)(do not duplicate entries in classes 1-22).
- Class 24 **Floral Arrangement** (Themed) – Theme, flowers, and design elements will be included in judging. 4Her does not have to grow plants used. Supporting information stating the theme (i.e. red theme, rose theme, etc.) must be included.
- Class 25 **Floral Arrangement** (Small) – Diameter of overall exhibits must be less than 6". 4Her does not have to grow plants used.
- Class 26 **Floral Arrangement** (Large) – Diameter of overall exhibit must be greater than 6". 4Her does not have to grow plants used.

Cut Flower Perennials – 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis.

Classes 30- 49 – (SF106)

- sf Class 30 **Achillea/Yarrow**
- sf Class 31 **Chrysanthemum**
- sf Class 32 **Coneflower**
- sf Class 33 **Coreopsis**
- sf Class 34 **Daisy**
- sf Class 35 **Gaillardia**
- sf Class 36 **Helianthus**
- sf Class 37 **Hydrangea** (3 stems)
- sf Class 38 **Liatris** (3 stems)
- sf Class 39 **Lillies** (3 stems)(Not Daylilies)
- sf Class 40 **Platycodon**
- sf Class 41 **Rose** (3 stems)
- sf Class 42 **Rudbeckia/Black-eyed Susan**
- sf Class 43 **Sedum**
- sf Class 44 **Statice**
- sf Class 45 **Any other perennial** (under 3" diameter-5 stems, 3" or more in diameter -3 stems)(do not duplicate entries in classes 30-44)
- sf Class 46 **4-H Flower Garden Collection** – of 5 different flowers. Each flower in the collection should be exhibited with the number specified for classes 1-45. Display in a box or other holder not more than 18" in any dimension.
- Class 47 **Cut Flower Theme Arrangement** – Theme exhibit, arrangement of fresh flowers pertaining to any type theme.

- Class 48 **Cut Flower Small Arrangement** – Cut flowers displayed in a container with a 6 inch or less diameter.
- Class 49 **Cut Flower Large Arrangement** – Cut flowers displayed in a container larger than 6 inches.

Educational Exhibits

- ^{sf} Class 50 **Flower Notebook** – (SF100) - Exhibit a notebook containing pictures of flowers grown in Nebraska. There must be at least 10 different species of annuals and/or biennials **and** 10 different species of perennials hardy to Nebraska. Bulbs may be included in a separate section. 4-H'ers may show more than one cultivar of the same species, but they will only count as one species. The notebook must be the result of the current year's work. Pictures from garden catalogs, hand drawn pictures, or photographs may be used. Each species/cultivar must be labeled with the correct common name and scientific name; the height and spread of the plant and the growing conditions (for example: needs full sun and dry sandy soil) the species prefers. In addition to this information, bulbs should also be labeled as spring or summer flowering. Give proper credit by listing the sources of pictures and information used. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the notebook.
- ^{sf} Class 51 **Flower Garden Promotion Poster** – (SF103) - Individual poster promoting flower gardening, size 14" x 22" either vertical or horizontal arrangement. Poster may be in any medium: watercolor, ink, crayon, etc. as long as it is not 3-dimensional. Posters using copyrighted material will not be accepted. Entry card must be stapled to the upper right hand corner. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

- ^{sf} Class 52 **Educational Flower Garden Poster** – (SF104) -Prepare a poster 14" x 22" x 2" (can be 3-dimensional) either vertical or horizontal arrangement illustrating a skill or project you have done or learned about in a 4-H flower or houseplant project. One might show a special technique or equipment used in the garden. Refer to 4-H horticulture project manuals, but use your own creativity. Entry card must be stapled to the upper right hand corner. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the poster.

- ^{sf} Class 53 **Flower Gardening History Interview** – (SF105) -Neatly handwritten or typed account of a gardening history interview whose flower garden has inspired you. Maximum of 4 pages of text and 2 pages of pictures (include 1 picture of the person you interviewed) of their flower garden if the individual is still gardening. Protect with a clear report cover. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the report cover.

Houseplants

- Youth must be enrolled in the Growing Great Houseplants project to exhibit in classes 60-66.
- **Container Grown Plants:** The choice of container and soil quality will be considered in judging. Each plant must be identified by listing the names on the entry tag or on a card attached to the container. Identify each plant individually if more than one cultivar or variety. Houseplants should be grown in the display container for a minimum of six weeks. Plants grown as houseplants must be used. NebGuide G2205 "Guide to Growing Houseplants: and NebGuide G837 "Guide to Selecting Houseplants" (<http://www.ianrpubs.unl.edu/epublic/live/g1853/buil d/g1853.pdf>) includes a listing of common houseplants. Containers of annual flowers or annual plants (i.e. petunias, geraniums, impatiens) will be disqualified and will not be judged.
- Entries in Class 60-66 must have been designed and planted by the 4-H member.

- Container grown houseplants shall be in pots no greater than 12" in diameter (inside opening measurement). Dish gardens, fairy or miniature gardens, desert gardens and terrariums may be up to 12" in diameter (inside opening measurement). Any container grown plant in Class 60-66 that is greater than 12" in diameter (inside opening) will be dropped one ribbon placing.
- Class 60-65 exhibitors must have and provide a saucer to catch drainage water. The 4-H member name, age, full address, county, and years in the project(s) must be on the bottom or back of the container and the saucer.
- 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, not the Extension staff. Exhibits containing an incorrect number of vegetables will be dropped one ribbon placing. In classes 252, 255, 268, 269, 285 and 286 do not duplicate entries from any of the other classes or entry will be dropped one ribbon placing. For example: 4-H'ers with two cultivars or varieties of red tomatoes can only enter the red tomatoes class and cannot enter the other cultivar or variety in any other vegetable class.
- Follow guidelines in "Selecting and Preparing Vegetables, Herbs and Fruits for Exhibit" (Free Download at <http://4h.unl.edu/web/4hcurriculum/PreparingVegetablesHerbsandFruit>)
- **For County Fair – Exhibit items in cardboard flats lined with aluminum foil. Plates will not be accepted.**
- **Place each Class in a separate box.**

- sf Class 60 **Flowering Potted Houseplant(s)-blooming for exhibition.** (SF107) – that are blooming for exhibition. Container may have one or more houseplants in container. Label name for each plant. Non-blooming plants will be disqualified.
- sf Class 61 **Foliage potted houseplant** – (SF107) – one variety of tropical or cacti or succulent plant.
- sf Class 62 **Hanging basket** (SF107) - of flowering and/or foliage plants. Container may have one or more houseplants in container. Label name for each plant.
- sf Class 63 **Dish Garden** – (SF107) - an open/shallow container featuring a variety of houseplants excluding cacti and succulents. Label name for each plant
- sf Class 64 **Fairy or Miniature Garden** – (SF107) - A miniature "scene" contained in an open container and featuring miniature or small, slow growing houseplants. The garden needs to have an imaginative theme and miniature accessories, ie bench, fence, made from tiny twigs, small shell for a bath tub etc. Label name for each plant.
- sf Class 65 **Desert Garden** –(SF107) - an open/shallow container featuring cacti and/or succulents grown as houseplants. Label name for each plant.
- sf Class 66 **Terrarium** – (SF107) -a transparent container, partially or completely enclosed; sealed or unsealed. Label name for each plant.

Division 773 – Vegetables- # to exhibit
Classes 201-256 – (SF108)

- sf Class 201 **Lima Beans -12**
- sf Class 202 **Snap Beans - 12**
- sf Class 203 **Wax Beans -12**
- sf Class 204 **Beets -5**
- sf Class 205 **Broccoli -2**
- sf Class 206 **Brussels Sprouts-12**
- sf Class 207 **Green Cabbage-2**
- sf Class 208 **Red Cabbage-2**
- sf Class 209 **Carrots-5**
- sf Class 210 **Cauliflower-2**
- sf Class 211 **Slicing Cucumbers-2**
- sf Class 212 **Pickling Cucumbers-5**
- sf Class 213 **Eggplant-2**
- sf Class 214 **Kohlrabi-5**
- sf Class 215 **Muskmelon/Cantaloupe-2**
- sf Class 216 **Okra-5**
- sf Class 217 **Yellow Onions-5**
- sf Class 218 **Red Onions-5**
- sf Class 219 **White Onions-5**
- sf Class 220 **Parsnips-5**
- sf Class 221 **Bell Peppers-5**
- sf Class 222 **Sweet (Non-Bell) peppers-5**
- sf Class 223 **Jalapeño Peppers-5**
- sf Class 224 **Hot (non-Jalapeño) peppers-5**
- sf Class 225 **White Potatoes-5**
- sf Class 226 **Red Potatoes-5**
- sf Class 227 **Russet Potatoes-5**
- sf Class 228 **Other Potatoes-5**
- sf Class 229 **Pumpkins-2**

Dept. G – Horticulture

General Information:

- Youth enrolled in the **Everyone a Gardener** project, **Gardening Unit 1-4**, and/or **Special Garden Project**.

sf Class 230	Minaturei Pumpkins (Jack Be Little type)-5
sf Class 231	Radish -5
sf Class 232	Rhubarb -5
sf Class 233	Rutabaga -2
sf Class 234	Green Summer Squash -2
sf Class 235	Yellow Summer Squash -2
sf Class 236	White Summer Squash -2
sf Class 237	Acorn Squash -2
sf Class 238	Butternut Squash -2
sf Class 239	Buttercup Squash -2
sf Class 240	Other Winter Squash -2
sf Class 241	Sweet Corn (in Husks)-5
sf Class 242	Swiss Chard -5
sf Class 243	Red Tomatoes (2" or more in diameter)-5
sf Class 244	Roma or Sauce-type Tomatoes -5
sf Class 245	Salad Tomatoes (under 2" in diameter)-12
sf Class 246	Yellow Tomatoes (2" or more in diameter)-5
sf Class 247	Turnips -5
sf Class 248	Watermelon -2
sf Class 249	Dry Edible Beans -1 pint
sf Class 250	Gourds , mixed types-5
sf Class 251	Gourds , single variety-5
sf Class 252	Any other vegetable 2, 5 or 12 (do not duplicated entries in classes 201-251) that doesn't fit in any other class.
sf Class 255	4-H Vegetable Garden Collection of five kinds of vegetables. Display Garden Collection in a box not more than 24" in any dimension. Showmanship will be considered in judging, but plastic grass, cotton, figurines, etc. should not be used in exhibit boxes. Each vegetable in the collection should be exhibited with the number specified for individual class (201-252). Do not duplicate entries in classes Class 201-252 with any in the group collection.
sf Class 256	4-H Cultivar Vegetable Collection. Vegetables entered in the collection are 5 cultivars from a single exhibit; for example, 5 cultivars of all types of peppers, squash, onions, tomatoes, etc. Display in a box not more than 24" in any dimension. Showmanship will be considered in judging; but plastic grass, cotton figurines, etc. should not be used in exhibit boxes. Each vegetable in the collection should be exhibited with the number specified for individual class (201-252).

Herbs

- Herbs will be judged using the same general criteria used for vegetables
- Those grown mainly for their seed, such as dill and caraway, should be exhibited on a plate.
- Those grown for their leaves such as basil, parsley, etc. should be exhibited in a glass container of water.
- Potted herb plants will be disqualified and will not be judged.

Classes 260-269 – (SF108)

sf Class 260	Basil -5
sf Class 261	Dill (dry)-5
sf Class 262	Garlic (bulbs)-5
sf Class 263	Mint -5
sf Class 264	Oregano -5
sf Class 265	Parsley -5
sf Class 266	Sage -5
sf Class 267	Thyme -5
sf Class 268	Any other herb -5 (do not duplicate classes 260-267)
af Class 269	4-H Herb Garden – display of 5 different herbs. Displayed in a box or other holder not more than 18" in any dimension. Each herb in the collection should be exhibited with the number specified for 260-268. Do not duplicate entries in Class 260-268 with any in the group collection.

Fruits

- Fruit will be judged using the same general criteria used for vegetables.
- Fruit will be judged for the stage of maturity normal for that season and growing location. Emphasis will be placed on how well fruit approaches market quality.

Classes 280-286 – (SF108)

sf Class 280	Strawberries (everbearers) -1pint
sf Class 281	Grapes -2 bunches
sf Class 282	Apples -5
sf Class 283	Pears -5
sf Class 284	Wild Plums -1pint
sf Class 285	Other small fruit or berries -1pint (do not duplicate entries in classes 280-284)
sf Class 286	Other fruits or nuts -5 (do not duplicate entries in classes 280-284)

EDUCATIONAL EXHIBITS

^{sf} Class 290 **Garden Promotion Poster** – (SF103) - Individual poster promoting vegetable or herb gardening, size 14" x 22" either vertical or horizontal arrangement. Poster may be in any medium so long as it is not 3-dimensional. Posters using copyrighted material will not be accepted. Entry card must be stapled to the upper right hand corner. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the poster.

^{sf} Class 291 **Educational Vegetable or Herb Garden Poster** – (SF104) -Prepare a poster 14" x 22" x 2" (3-dimensional if needed) either vertical or horizontal arrangement illustrating a skill or project the 4-H'er has done or learned about in a 4-H vegetable gardening project. One might show a special technique used or equipment incorporated in the garden (e.g., drip irrigation system, composting, or special techniques learned). Refer to 4-H horticulture project manuals, but use your own creativity. Entry card must be stapled to the upper right hand corner. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the poster.

^{sf} Class 292 **Vegetable and/or Herb Gardening History Interview** – (SF105) -Neatly handwritten or typed account of a gardening history interview of someone whose vegetable or herb garden has inspired you. Maximum of 4 pages of text and 2 pages of pictures (include 1 picture of the person you interviewed) of their garden if the individual is still gardening. Protect with a clear report cover. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the report cover.

^{sf} Class 293 **Vegetable Seed Display** – (SF101) -Each display must include seeds representing the following families: Cucurbit, Brassica (cabbage), Solanaceous (nightshade), and Legume (pea) families, plus representatives from 5 other families. Group the seeds by family and type. Glue seeds or otherwise fasten clear containers of seeds to a board or poster mat board no larger than 22" x 24". Label each group and each individual vegetable type with the common and scientific names. Use only one variety or cultivar of each vegetable, except for beans where several examples of beans may be shown. Attach a card to the back of the display explaining why and how it is important to know which vegetables are related and cite references on where the scientific name information was found. The 4-H'ers name, age, full address, county, and years in the project(s) must be on the back of the display. Information on vegetable family members can be obtained from your Extension office.

^{sf} Class 294 **World of Vegetables Notebook** – (SF102) - Choose a favorite foreign cuisine and learn what vegetables and/or herbs are common to it (e.g. Mexican, African, Chinese, Italian, etc.). Include a report telling about a minimum of 5 vegetables and/or herbs from each country chosen. Include the scientific and common names; pictures of the plants from your garden or seed catalogs; tell how they are grown; and how the foods are used. Also list a source for buying the seed or plants. Favorite recipes using some or all of the vegetables described may be included. Give proper credit by listing the source of pictures and information used. Protect in a clear report cover or 3-ring notebook. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the report cover or notebook.

Division 775 – Special Garden Project

Youth must be enrolled in the current year's Special Garden Project to exhibit. Fresh cut flowers or harvested vegetables should be entered in the appropriate class listed above.

The 2022 Special Gardening Project is focused on the Rubenza Cosmos.

^{sf} Class 1 **Special Garden Project – (SF109)** - Educational exhibit based on what was learned from this project. Present information on a poster 14"x 22" either vertical or horizontal arrangement or in a clear plastic report cover. The 4-H member's name, age, full address, and county must be on the back of the poster or report cover.

^{sf} Class 2 **Special Garden Project Fresh Cut Flowers or Harvested Vegetables – (SF109)** -The current years' Special Garden Project fresh cut flowers or harvested vegetables should be entered in this class. Refer to classes 1-45 for quantity to exhibit if special garden project is a fresh cut flower. Refer to classes 201-252 for quantity to exhibit if special garden project is a vegetable.

the stage of maturity normal for that season and growing location. Emphasis will be placed on how well fruit approaches market quality. Score Sheet SF108.

Resources: Annual Flowers – Plant, grow, and care for annual flowers

<https://4hcurriculum.unl.edu/index.php/main/project/105>

- Everyone A Gardener- Choose a garden site; Plan a garden; Grow vegetables; Select and purchase garden supplies; Grow transplants
<https://4hcurriculum.unl.edu/index.php/main/project/107>
- Gardening A- Plan and plant a garden; Find out how seeds germinate; Learn what different plant parts do/ harvest and use your vegetables
<https://4hcurriculum.unl.edu/index.php/main/project/108>
- Gardening B- Transplant plants into your garden; Grow plants from plant parts; Feed your garden: Earn money by growing vegetables
<https://4hcurriculum.unl.edu/index.php/main/project/109>
- Gardening C – Learn about succession planting; Grow an herb garden; Find out about photosynthesis: Identify pest damage
<https://4hcurriculum.unl.edu/index/php/main/project/110>
- Gardening D – Use intercrop and double crop planting methods; Plant a computer planned garden; Identify plant diseases; Learn about plant scientists
<https://4hcurriculum.unl.edu/index.php/main/project/111>
- Houseplants – Grow foliage and bulb plants indoors; Learn what houseplants need to stay healthy.
<https://4hcurriculum.unl.edu/index/php/main/project/106>
- Special Gardening Project
<https://4hcurriculum.unl.edu/index/php/main/project/176>
- The World of Flowers – Learn about growing healthy plants; Grow flowers from seeds; Learn about caring for flowers
<https://4hcurriculum.unl.edu/index.php/mainn/project/104>

Rules

1. 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, not the Extension staff or office personnel. Exhibits entered under an incorrect class number or containing an incorrect number of vegetables will be dropped one ribbon placing. In classes 252, 255, 268, 269, 285 and 286 do not duplicate entries with the classes listed by using other cultivars or varieties or entry will be dropped one ribbon placing. For example: 4-H'ers with two cultivars or varieties of red tomatoes can only enter the red tomatoes class and cannot enter the other cultivar or variety in any other vegetable class. Score Sheet SF108.

2. Follow the guidelines in Selecting and Preparing Vegetables, Herbs and Fruits for Exhibit 4H226 (revised June 2013) when preparing entries for the fair. At State Fair, plates will be provided for the exhibitor.

3. Vegetables (Classes 1-56) Class, Vegetable, Number's to Exhibit

4. Herbs (Classes 60-69) Herbs will be judged using the same general criteria used for vegetables. Those grown mainly for their seed, such as dill and caraway, should be exhibited on a plate. Those grown for their leaves such as basil, parsley, etc. should be exhibited in a glass container of water. Containers will not be returned at State Fair. Potted herb plants will be disqualified and will not be judged. Score Sheet SF108.

5. Fruits (Classes 80-86) Fruits will be judged using the same general criteria used for vegetables. Fruit will be judged for