

# PLANT SCIENCE

(AGRONOMY & HORTICULTURE)

See General Rules pg. 2 for additional information.

All static exhibits must receive a purple at the county fair to advance to the State Fair.

PLANT SCIENCE exhibits are eligible for the PREMIER 4-H SCIENCE AWARD offered at State Fair. See pg. 5 for details.

## AGRONOMY

(FIELD CROPS, WEED SCIENCE & RANGE)

Individuals in the Crop Production, Field Crops project may exhibit grain or plants to prepare an educational display representing their project. 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.

## FIELD CROPS

### GENERAL INFORMATION & EXHIBITING RULES – FIELD CROPS

#### 1. Grain or Plant Exhibits – Classes 001-005

- 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 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. Refer to Scoresheet SF264. 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. Display containers will be furnished.
- Plant exhibits, with the exception of ears of corn, must be the result of the current year's project. –
  - 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 or half size small square bale.

#### 2. Displays – Classes 006-010

- 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. Refer to Scoresheet SF259 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 a display does not have an essay, it will automatically be deducted one ribbon placing.

#### 3. NEW: Special Agronomy Project – Classes 011-013

- 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.
- A different seed will be selected every year. The crop of the year for 2022 is broomcorn sorghum.
- 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

## DEPARTMENT G - DIVISION 750 – FIELD CROPS

Division 750 Classes 001 – 013

Pay Category H

- SF)CLASS 001** **Corn** (includes yellow, white, pop, waxy or any other type) (SF264)
- SF)CLASS 002** **Soybeans** (SF264)
- SF)CLASS 003** **Oats** (SF264)
- SF)CLASS 004** **Wheat** (SF264)
- SF)CLASS 005** **Any Other Crop** (includes grain sorghum, alfalfa, millets, barley, rye, triticale, amaranth, dry beans, sugar beet, mung bean, canola, forage sorghum, safflower, etc.) (SF264)
- SF)CLASS 006** **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. (SF259)
- SF)CLASS 007** **Crop Technology Display** – Display information about aspects of technology used in crop production, such as genetic engineering, crop breeding, GPS, yield mapping, computers, etc. (SF259)
- SF)CLASS 008** **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). (SF259)
- SF)CLASS 009** **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. (SF259)
- SF)CLASS 010** **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. (SF259)
- SF)CLASS 011** **Special Agronomy Project - Educational Exhibit** - 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. Refer to Scoresheet SF259 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. (SF259)
- SF)CLASS 012** **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.
- SF)CLASS 013** **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 (½ 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 crops 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.

## WEED SCIENCE

### GENERAL INFORMATION & EXHIBITING RULES – WEED SCIENCE

1. 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).

#### 2. 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 clover.
- Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness, and conformity to exhibit requirements. Refer to Scoresheet SF261.
- 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 the 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.

Scientific Name: *Abutilon theophrasti* Medik

Common Name: Velvetleaf

County of Collection: Hall County

Collection Date: 6 July 2016

Collector's Name: Dan D. Lion

Personal Collection Number: 3 (indicating the order that plants were collected in your personal collection)

Other information depending on class selected, i.e., noxious, life form.

#### 3. 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. Refer to Scoresheet SF259.
- Each display must have a one page essay explaining why the exhibitor chose the area of display and what they earned from their project. Include any references used.
- The essay should be in a clear plastic cover with the exhibitor's name outside.
- Other information depending on class selected, i.e., noxious, life form. This information should be typed or printed neatly.

## DEPARTMENT G - DIVISION 751 – WEED SCIENCE

Division 751 Class 001–003

Pay Category H

**SF)CLASS 001 Weed Identification Book** - Each book shall contain a minimum of 15 plant mounts and must include at least two of the following prohibited noxious weeds (Canada thistle, musk thistle, plumeless thistle, saltcedar, leafy spurge, purple loosestrife, diffuse knapweed, or spotted knapweed, Japanese knotweed, bohemian knotweed or phragmites) and at least three weeds that are a problem primarily in lawns. (SF261)

**SF)CLASS 002 Life Span** - A collection of 7 perennial, 1 biennial and 7 annual weeds. (SF261)

**SF)CLASS 003 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 (SF259)

## 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.

## GENERAL INFORMATION & EXHIBITING RULES – RANGE MANAGEMENT

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.
6. **Books (Classes 1-6):** For books, plants must be mounted on sheets that are no larger than 14" wide by 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 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.  
Example      Scientific name: *Schizachyrium scoparium* (Michx.) Nash  
                    Common name: Little bluestem  
                    County of collection: Hall County  
                    Collection date: 6 August 2016  
                    Collector's name: Joe Smith  
                    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.
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" 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.
8. **Boards (Classes 8-9, 910):** Boards should be no larger than 30" wide by 36" tall. Boards should be adequately labeled.

## DEPARTMENT D - DIVISION 330 - RANGE MANAGEMENT

Division 330 Classes 001-009, 901

Pay Category H

- SF)CLASS 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. (SF260)
- SF)CLASS 002 Life Span Book** - A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs. (SF260)
- SF)CLASS 003 Growth Season Book** - A collection of 6 cool-season grass mounts and 6 warm-season grass mounts. (SF260)
- SF)CLASS 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. (SF260)
- SF)CLASS 005 Major Types of Range Plants Book** - A collection of plant mounts of 3 grasses, 3 forbs, 3 grass-like and 3 shrubs. (SF260)
- SF)CLASS 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. (SF260)
- SF)CLASS 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. (SF259)
- SF)CLASS 008 Special Study Board** - 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. (SF260)
- SF)CLASS 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. (SF260)
- C)CLASS 901 Range Plant Board** – Include 25 range forage species important to a particular county and should include: 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 as needed. (SF260)

## HORTICULTURE

(FLORICULTURE, HOUSEPLANTS, VEGETABLES, HERBS, & FRUITS)

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.

### FLORICULTURE, EDUCATIONAL EXHIBITS & HOUSEPLANTS

#### GENERAL INFORMATION & EXHIBITING RULES – FLORICULTURE & HOUSEPLANTS

1. Youth must be enrolled in the World of Flowers and/or Annual Flowers projects to exhibit a maximum of FOUR (4) entries per person in classes 1-46 (cut flowers) and 50-53 (educational exhibits). Exhibits are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER. Entries must be the work of the 4-H member.
2. Youth must be enrolled in the Growing Great Houseplants project to exhibit in classes 60-66. This also makes them eligible to exhibit in classes 50-53 (educational exhibits). Youth may enter a maximum of THREE (3) entries in classes 50-66, but each entry must have received a purple ribbon at the county fair to advance to the State Fair.
3. **Floriculture – Classes 001-046**
  - **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. If potted container with several cultivar or varieties, identify each individually within the pot. 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 from the already listed classes or entry will be dropped one ribbon placing. For example, 4-H'ers 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 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. Foliage will be considered when exhibit is judged.
  - All 3 or 5 stems of cut flowers 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 (no plastic containers) and of adequate size to display blooms. Any exhibit not in a clear glass container will be dropped one ribbon placing. Containers may not be returned from State Fair.
  - Follow the guidelines in 4-H Preparing Cut Flowers for Exhibits 4H227 (revised 2016) when preparing entries for the fair.
4. **Houseplants - Classes 060-066**
  - Container Grown Houseplants: The choice of container and soil quality will be considered in judging. Each houseplant 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](#)" 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 Classes 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 Classes 60-66 that is greater than 12" in diameter (inside opening measurement) will be dropped one ribbon placing.

- Classes 60-65 exhibitors must have and provide a saucer to catch drainage water. The 4-H members name, age, full address, county, and years in the project(s) must be on the bottom or back of the container and saucer.

## DEPARTMENT G - DIVISION 770 – FLORICULTURE, EDUCATIONAL EXHIBITS & HOUSEPLANTS

Division 770 Classes 001-046, 050-053, 060-066, 966-969

Pay Category H

**CUT FLOWERS - ANNUALS AND BIENNIALS** - 5 stems of a single variety (cultivar) unless noted in parenthesis. (SF106)

- SF)CLASS 001 Aster
- SF)CLASS 002 Bachelor Buttons
- SF)CLASS 003 Bells of Ireland
- SF)CLASS 004 Browallia
- SF)CLASS 005 Calendula
- SF)CLASS 006 Celosia (crested or plume) (3 stems)
- SF)CLASS 007 Cosmos
- SF)CLASS 008 Dahlia
- SF)CLASS 009 Dianthus
- SF)CLASS 010 Foxglove
- SF)CLASS 011 Gladiolus (3 stems)
- SF)CLASS 012 Gomphrena
- SF)CLASS 013 Hollyhock (3 stems)
- SF)CLASS 014 Marigold
- SF)CLASS 015 Pansy
- SF)CLASS 016 Petunia
- SF)CLASS 017 Salvia
- SF)CLASS 018 Snapdragon
- SF)CLASS 019 Statice
- SF)CLASS 020 Sunflower (under 3" diameter - 5 stems; 3" or more in diameter - 3 stems)
- SF)CLASS 021 Vinca
- SF)CLASS 022 Zinnia
- SF)CLASS 023 **Any other annual or biennial** (under 3" in diameter - 5 stems; 3" or more in diameter - 3 stems) Do not duplicate entries in classes 1-22.

**CUT FLOWERS - PERENNIALS** - 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis. (SF106)

- SF)CLASS 030 Achillea / Yarrow
- SF)CLASS 031 Chrysanthemum
- SF)CLASS 032 Coneflower
- SF)CLASS 033 Coreopsis
- SF)CLASS 034 Daisy
- SF)CLASS 035 Gaillardia
- SF)CLASS 036 Helianthus
- SF)CLASS 037 Hydrangea (3 stems)
- SF)CLASS 038 Liatris (3 stems)
- SF)CLASS 039 Lilies (3 stem) (Not Daylilies)
- SF)CLASS 040 Platycodon
- SF)CLASS 041 Rose (3 stems)
- SF)CLASS 042 Rudbeckia/Blackeyed Susan
- SF)CLASS 043 Sedum
- SF)CLASS 044 Statice
- SF)CLASS 045 **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 046 **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. (Boxes may not be returned from State Fair.) Do not duplicate entries in classes 1-45 with any in the group collection.

### EDUCATIONAL EXHIBITS

- SF)CLASS 050 **Flower Notebook** - 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-Hers 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. (SF100)

**SF)CLASS 051 Flower Garden Promotion Poster** - 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, full address, county, and years in the project(s) must be on the back of the poster. (SF103)

**SF)CLASS 052 Educational Flower Garden Poster** - Prepare a poster no larger than 14" x 22" x 2" (3- dimensional if needed) either vertical or horizontal arrangement illustrating a skill or project you have done or learned about in a 4-H flowers or houseplant project. One might show a special technique used or equipment incorporated 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. (SF104)

**SF)CLASS 053 Flower Gardening History Interview** - 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. (SF105)

#### HOUSPLANTS

**SF)CLASS 060 Flowering Potted Plants(s)** that are blooming for exhibition. Non-blooming plants will be disqualified. Container may have one or more houseplants in container. Label name for each plant. (SF107)

**SF)CLASS 061 Foliage Potted Plant** – one variety of tropical or cacti or succulent plant of all the same variety. (SF107)

**SF)CLASS 062 Hanging Basket** of flowering and/or foliage houseplants. Container may have one or more houseplants in container. Label name for each plant. (SF107)

**SF)CLASS 063 Dish Garden** - an open/shallow container featuring a variety of houseplants excluding cacti and succulents. Label name for each plant. (SF107)

**SF)CLASS 064 Fairy or Miniature Garden** - 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, i.e. bench, fence made from tiny twigs, small shell for a bath tub, etc. Label name for each plant. (SF107)

**SF)CLASS 065 Desert Garden** - an open/shallow container featuring a variety of cacti and/or succulents grown as houseplants. Label name for each plant. (SF107)

**SF)CLASS 066 Terrarium** - A transparent container, partially or completely enclosed; sealed or unsealed. Label name for each plant. (SF107)

#### BEAUTIFUL BUCKET

Youth may enter this class as a community service activity and do not have to be enrolled in a Floriculture project. The purpose of the exhibit is to beautify the fairgrounds for the fair.

**C)CLASS 966 Beautiful Bucket or Other Display Using Plants** - They are to be exhibited on the fairgrounds for public display. **Be sure to tell Extension Staff where they are placed, or they will not be judged.** Place the buckets where you want them to be displayed when you bring them to the fairgrounds. Ribbons will be displayed on the wall in the Horticulture Exhibit Area. You may bring the buckets to the fairgrounds before judging.

#### ARRANGEMENTS

**C)CLASS 967** An original arrangement made with flowers from your floriculture project. NO PURCHASED FLOWERS ACCEPTED. No larger than 12"x 12".

**C)CLASS 968** An original arrangement made with a combination of native grasses, flowers, vines or other nature materials. No larger than 18"x 18".

**C)CLASS 969** An original arrangement made with a **combination** of materials such as vegetables, flowers from your gardening project or native materials, etc. NO PURCHASED FLOWERS ACCEPTED. No larger than 18"x 18".

## VEGETABLES, HERBS, FRUITS & EDUCATIONAL EXHIBITS

### GENERAL INFORMATION & EXHIBITING RULES - VEGETABLES, HERBS & FRUITS & EDUCATIONAL EXHIBITS

1. Youth enrolled in Everyone A Gardener and /or Gardening Units A-D projects may exhibit in this division.
2. An exhibitor may enter a maximum of FOUR (4) entries per person in classes 201-294, 900-911 or 960-962. Exhibits are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER **Entries must be the work of the 4-H member.**
3. 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.
4. 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.
5. **Herbs (Classes 260-269)** 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.
6. **Fruits (Classes 280-286)** Fruits 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. Score Sheet SF108.

## DEPARTMENT G - DIVISION 773 - VEGETABLES, HERBS, FRUITS & EDUCATIONAL EXHIBITS

Division 773 Classes 201–256, 260-269, 280-286, 290-294, 961

Pay Category H

### VEGETABLES (SF108)

<u>Class</u>	<u>Vegetable</u>	<u>Numbers to Exhibit</u>
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 Cucumber -----	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-Jalapeno) 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	Pumpkin -----	2
SF)CLASS 230	Miniature 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" 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** (do not duplicate entries in classes 201-251) that doesn't fit in any other class  
 SF)CLASS 255 **4-H Vegetable Garden Collection** - Five kinds of vegetables displayed in a box not more than 24" in any dimension. (At State Fair boxes may not be returned.) 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 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. (At State Fair boxes may not be returned.) 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).
- C)CLASS 961 **Gardening Entrepreneurship** - An exhibit showing development of a gardening project that was used to make money for the 4-Her or his/her family. The 4-Her must have helped develop the project and implemented it. If the project or concept has not been fully implemented show what has been done to date and how the project will progress. Make the exhibit visually interesting to be viewed by the public. If a notebook format is used put it into a plastic cover or a three-ring binder. If a poster is used, be sure it meets Poster guidelines 14" x 22".

**HERBS (SF108)**

<u>Class</u>	<u>Herb</u>	<u>Numbers to Exhibit</u>
SF)CLASS 260	<b>Basil</b> -----	5
SF)CLASS 261	<b>Dill</b> (dry) -----	5
SF)CLASS 262	<b>Garlic</b> (bulbs)-----	5
SF)CLASS 263	<b>Mint</b> -----	5
SF)CLASS 264	<b>Oregano</b> -----	5
SF)CLASS 265	<b>Parsley</b> -----	5
SF)CLASS 266	<b>Sage</b> -----	5
SF)CLASS 267	<b>Thyme</b> -----	5
SF)CLASS 268	<b>Any other herb</b> -----	5 (Do not duplicate entries in classes 260-267)
SF)CLASS 269	<b>4-H Herb Garden Display</b> - 5 different herbs. Displayed in a box or other holder not more than 18" in any dimension. (At State Fair boxes may not be returned.) Each herb in the collection should be exhibited with the number specified for classes 260-268. Do not duplicate entries in classes 260-268 with any in the group collection.	

**FRUITS (SF108)**

SF)CLASS 280	<b>Strawberries</b> (everbearers) -----	1 pint
SF)CLASS 281	<b>Grapes</b> -----	2 bunches
SF)CLASS 282	<b>Apples</b> -----	5
SF)CLASS 283	<b>Pears</b> -----	5
SF)CLASS 284	<b>Wild Plums</b> -----	1 pint
SF)CLASS 285	<b>Other Small Fruit OR Berries</b> -----	1 pint (do not duplicate entries in classes 280-284)
SF)CLASS 286	<b>Other Fruits OR Nuts</b> -----	5 (do not duplicate entries in classes 280-284)

**EDUCATIONAL EXHIBITS**

- SF)CLASS 290 **Garden Promotion Poster** - Individual poster promoting vegetable or herb gardening, size 14" x 22" either vertical or horizontal arrangement. Poster may be in any medium 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, full address, county, and years in the project(s) must be on the back of the poster. (SF103)

- SF)CLASS 291** **Educational Vegetable or Herb Garden Poster** - Prepare a poster 14" x 22" x 2" (3-dimensional if needed) either vertical or horizontal arrangement illustrating a skill or project the 4-Her 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. (SF104)
- SF)CLASS 292** **Vegetable and/or Herb Gardening History Interview** - Neatly handwritten or typed account of a gardening history interview 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. (SF105)
- SF)CLASS 293** **Vegetable Seed Display** - 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 4H member's name, age, full address, county, and years in the project(s) must be on the back of the display. (SF101)
- SF)CLASS 294** **World of Vegetables Notebook** - 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 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-Her member's name, age, full address, county, and years in the project(s) must be on the back of the report cover or notebook. (SF102)

## DEPARTMENT G - DIVISION 775 – SPECIAL GARDEN PROJECT

Division 775 Classes 001-002, 901-902

Pay Category H

Youth must be enrolled in the current year's Special Garden Project to exhibit.

- SF)CLASS 001** **Special Garden Project 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. (SF109)
- SF)CLASS 002** **Special Garden Project Fresh Cut Flowers or Harvested Vegetables** – The current years' Special Garden Project fresh cut flowers or harvested vegetables should be entered in this class. Refer to classes 001-045 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. (SF109)
- C)CLASS 901** **Poem** – Write a poem about some aspect of the Special Garden Project: growing cutting the flowers, harvesting the vegetable, insect it attracts, the choice is yours! Exhibit in a clear plastic report cover.
- C)CLASS 902** **Most Unique or Largest Special Garden Project** – Turn the oddball blooms, plants, or vegetables into a fun exhibit and show off your most unique.