

PLANT SCIENCE
Crops and Range (Agronomy) Department G
Superintendent: Clint Phillips

Junior Superintendents: Garett Tollman, Bailey Sellman, & Miranda Betson

DIVISION 750:

A. 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 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 and brought in an appropriate sized box/container for display. NEW: Place in a clear container so it can be viewed and displayed.
- Plant exhibits, except for 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.

B. 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 inches wide by 28 inches 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.

- C. **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 or ag ed classrooms across the state, as ordered by that location. Offices will distribute to youth on a first-come – first serve basis. 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

G750001. Corn. (Includes yellow, white, pop, waxy, or any other type) (SF264)

G750002. Soybeans. (SF 264)

G750003. Oats. (SF 264)

G750004. Wheat. (SF264)

G750005. Any other crop. (SF 264) (includes grain sorghum, alfalfa, millets, barley, rye, triticale, amaranth, dry beans, sugar beet, mung bean, canola, forage sorghum, safflower, etc.)

G750006. Crop Production Display. (SF 259) 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.

G750007. Crop Technology Display. (SF 259) Display information about aspects of technology used in crop production, such as genetic engineering, crop breeding, GPS, yield mapping, computers, etc.

G750008. Crop End Use Display. (SF 259) 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).

G750009. Water or Soil Display. (SF 259) 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.

G750010. Career Interview Display. (SF 259) 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.

G750011. Special Agronomy Project – Educational Exhibit. (SF259) Educational exhibit based on what was learned from the project, Present information on a poster 14 inches X 22 inches either vertical or horizontal arrangement or in a clear plastic report cover. The 4-H member's name, age, 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.

G750012. 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. Email a link of the video to the superintendents to (emails and date)

G750013. Special Agronomy Project. (Freshly Harvested Crop).

- Plant exhibits must be the result of the current year's project. The crop of the year for 2024 is Sugar Beets. 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 of 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 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.

DIVISION 751: WEED SCIENCE (SF 261)

- A. At least 15 of the specimens must represent this year's work. For assistance identifying plants, participants can use Nebraska Department of Agriculture's Weeds of Nebraska and the Great Plains (1994) or Weeds of the Great Plains (2003).
- B. **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.
 - Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness, and conformity to exhibit requirements. Refer to Scoresheet SF 261.
 - Each completed mount must have the following information (see example below) 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. Collection number, indicating order that plants were collected,
 7. Other information depending on class selected, i.e., noxious, life form. This information should be typed or printed neatly.
- C. **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 inches by 28 inches on plywood or poster board. The display should be neatly titled.
 - Make sure to label display with exhibitor's name, address, and county on 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 learned from their project. Include any references used.
 - The essay should be in a clear plastic cover with the exhibitor's name outside.

G751001. Weed Identification Book. (SF 261) 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 five weeds that are a problem primarily in lawns.

G751002. Life Span Book. (SF 261) A collection of 7 perennial, 1 biennial, and 7 annual weeds.

G751003. Weed Display. (SF 259) 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.

DIVISION 330: RANGE MANAGEMENT

General Information:

- A. Each exhibit must be properly identified with Unit and Class.
- B. All plant displays and display covers must be the result of the current year's work.
- C. 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).
- D. 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.
- E. For guidelines on specific projects, refer to appropriate project manuals. Premier 4-H Science Award is available in this area.
- F. Scoresheets, can be found at <http://go.unl.edu/ne4hrange>
- G. **Books – Classes 1-6:**
 - For books, plants must be mounted on sheets that are no larger than 14 inches x 14 inches high. Plants should be glued rather than taped and the mounts should be protected with a clear cover. Proper plant mount should include root as well as stem and leaf tissue.
 - Exhibits will be judged based on completeness of plant mount, accuracy of identification, labeling, neatness and conformation to project requirements. Refer to Scoresheet SF 260.
 - 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 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.
- H. **Displays – Class 7:**
 - The purpose of the display is to tell an educational story to those that view the display. The display is a visual representation (pictures, charts, graphs) no larger than 28 inches by 28 inches on plywood or poster board. The display should be neatly titled. Make sure to label display with exhibitor's name, address, and county on back side.
- I. **Boards – Classes 8-9:**
 - Display boards should be no larger than 30 inches x 36 inches tall. Display boards should be adequately labeled.

D330001. Value and Importance for Livestock Forage and Wildlife Habitat and Food Book. (SF 260) 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.

D330002. Life Span Book. (SF 260) A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs.

D330003. Growth Season Book. (SF 260) A collection of 6 cool-season grass mounts and 6 warm-season grass mounts.

D330004. Origin Book. (SF 260) 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.

D330005. Major Types of Range Plants Book. (SF 260) A collection of plant mounts of 3 grasses, 3 forbs, 3 grass-like, and 3 shrubs.

D330006. Range Plant Collection Book. (SF 260) 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.

D330007. Parts of a Range Plant Poster. (SF 259) 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.

D330008. Special Study Board. (SF 260) A display of the results of a clipping study, a degree of use study, range site study, etc. A short essay must accompany the display to explain the reason for the study, what was learned, and study results. This should be placed in a sheet cover attached to the board.

D330009. Junior Rancher Board. (SF 260) 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.

COUNTY ONLY RANGE MANAGEMENT

D330101. Value and Importance for Livestock Forage and Wildlife Habitat and Food Book. A collection of 1 or more different plant mounts. Classify each plant as high value, medium value, or 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 if more than one plant. Label each plant mount with its value and importance classifications for each of the three areas; Livestock Forage, Wildlife Habitat, Wildlife Food.

D330102. Range Plant Collection Book. A collection of 6-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 at the front of the book, which describes what the plants have in common and why you have chosen to collect them.

PLANT SCIENCE
Horticulture Department G
Superintendent: Clint Phillips

Junior Superintendents: Garrett Tollman, Bailey Sellman, & Miranda Betson

General Information:

DIVISION 770: FLORICULTURE, EDUCATIONAL EXHIBITS & HOUSEPLANTS

Floriculture:

- A. Youth must be enrolled in the World of Flowers and/or Annual Flowers projects to exhibit a maximum of 4 entries per person in classes 1-45 (cut flowers) and 50-53 (educational exhibits).
- B. **Exhibits are limited are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER.** Entries must be the work of the 4-H member. Notebooks and posters must have received a purple ribbon at the county fair to advance to the State Fair.
- C. **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. For Floriculture, punch hole in the top center of entry tag, use a rubber band to securely attach entry tag to containers.
- D. Exhibits entered under an incorrect class number or containing an incorrect number of stems will be dropped one ribbon placing. In classes 23, 44 & 45, 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.
- E. 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 at State Fair) and of adequate size to display blooms. Any exhibit not in a clear glass container will be dropped one ribbon placing. NO SCREW ON LIDS OR SCREW ON RINGS AND FLATS MAY BE USED. To hold flowers in place it is suggested to use tin foil or a type of plastic wrap with holes poked into it or frog lids. Containers may not be returned from State Fair.

Cut Flower Annuals and Biennials - 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis. (SF 106)

G770001. Aster.

G770002. Bachelor Buttons.

G770003. Bells of Ireland.

G770004. Browallia.

G770005. Calendula.

G770006. Celosia. (crested or plume) (3 stems)

G770007. Cosmos.

G770008. Dahlia.

G770009. Dianthus.

G770010. Foxglove.

G770011. Gladiolus. (3 stems)

G770012. Gomphrena.

G770013. Hollyhock. (3 stems)

G770014. Marigold.

G770015. Pansy.

G770016. Petunia.

G770017. Salvia.

G770018. Snapdragon.

G770019. Statice.

G770020. Sunflower. (Under 3 inch diameter - 5 stems, 3 inch or more in diameter - 3 stems)

G770021. Vinca.

G770022. Zinnia.

G770023. Any other annual or biennial. (Under 3 inch diameter - 5 stems, 3 inch or more in diameter- 3 stems)

(Do not duplicate entries in classes 1-22)

Cut Flower – Perennial – 5 stems of a single variety (cultivar) unless otherwise noted in parenthesis. (SF 106)

G770030. Achillea/Yarrow.

G770031. Chrysanthemum.

G770032. Coneflower.

G770033. Coreopsis.

G770034. Daisy.

G770035. Gaillardia.

G770036. Helianthus.

G770037. Hydrangea. (3 stems)

G770038. Liatris. (3 stems)

G770039. Lilies. (3 stems) (Not Daylilies)

G770040. Platycodon.

G770041. Rose. (3 stems)

G770042. Rudbeckia/Black-eyed Susan.

G770043. Sedum.

G770044. Statice.

G770045. Any other perennial. (Under 3 inch diameter - 5 stems, 3 inch or more in diameter - 3 stems) (Do not duplicate entries in classes 30-44)

G770046. 4-H Flower Garden Collection of 5 different flowers. Each flower in the collection should be exhibited with the number specified for classes 1-44. Display in a box or other holder not more than 18 inches in any dimension. Boxes may not be returned at State Fair. Do not duplicate entries in classes 1-44 with any in the group collection.

EDUCATIONAL EXHIBITS

G770050. Flower Notebook. (SF 100) 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, county, and years in the project(s) must be on the back of the notebook.

G770051. Flower Garden Promotion Poster. (SF 103) Individual poster promoting flower gardening, size 14 inches x 22 inches either vertical or horizontal arrangement. Poster may be in any medium: watercolor, ink, crayon, etc. if it is not 3dimensional. 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.

G770052. Educational Flower Garden Poster. (SF 104) Prepare a poster 14 inches x 22 inches x 2 inches (3-dimensional if needed) 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 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.

G770053. Flower Gardening History Interview. (SF 105) 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, county, and years in the project(s) must be on the back of the report cover.

HOUSEPLANTS

- A. 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.
- B. 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. 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" <http://extensionpublications.unl.edu/assets/html/g2205/build/g2205.htm> 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. <http://extensionpublications.unl.edu/assets/html/g837/build/g837.htm> 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.
- C. Entries in Classes 60-66 must have been designed and planted by the 4-H member.
- D. Any container plant, (flowering or foliage potted houseplants, dish gardens, fairy or miniature gardens, desert gardens, or terrariums) shall be in containers no larger than 12 inches (use inside opening measurement) in any dimension of length or width. No combination of pots may be used. All potted plants are to be in a one pot container. Any container grown plant in Classes 60-66 that is does not follow these guidelines will be dropped one ribbon placing.
- E. 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.

G770060. Flowering Potted Houseplant(s). (SF 107) that are blooming for exhibition. Non-blooming plants will be disqualified.

G770061. Foliage Potted Houseplant. (SF 107) one variety of tropical or cacti or succulent plant.

G770062. Hanging Basket. (SF 107) container may have one or more houseplants in container. Label with name for each plant.

G770063. Dish Garden. (SF 107) An open/shallow container featuring a variety of houseplants excluding cacti and succulents. Label with name for each plant.

G770064. Fairy or Miniature Garden. (SF 107) 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 bathtub, etc. Label name for each plant

G770065. Desert Garden. (SF 107) An open/shallow container featuring a variety of cacti and/or succulents grown as houseplants. Label name for each plant.

G770066. Terrarium. (SF 107) A transparent container partially or completely enclosed; sealed or unsealed. Label name for each plant.

DIVISION 773: VEGETABLES, HERBS, FRUITS & EDUCATIONAL EXHIBITS (SF 108)

- A. An exhibitor may enter a maximum of 4 entries per person in classes 201-294. Exhibits are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER. Entries must be the work of the 4-H member. Notebooks and posters must have received a purple ribbon at the county fair to advance to the State Fair.
- B. 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 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.
- C. Follow the guidelines in "Selecting and Preparing Vegetables, Herbs and Fruits for Exhibit" 4H226 when preparing entries for the fair.

VEGETABLES (SF 108)

Class	Vegetable	#'s to Exhibit
G773201.	<u>Lima Beans</u>	12
G773202.	<u>Snap Beans</u>	12
G773203.	<u>Wax Beans</u>	12
G773204.	<u>Beets</u>	5
G773205.	<u>Broccoli</u>	2
G773206.	<u>Brussels Sprouts</u>	12
G773207.	<u>Green Cabbage</u>	2
G773208.	<u>Red Cabbage</u>	2
G773209.	<u>Carrots</u>	5
G773210.	<u>Cauliflower</u>	2
G773211.	<u>Slicing Cucumbers</u>	2
G773212.	<u>Pickling Cucumbers</u>	5
G773213.	<u>Eggplant</u>	2
G773214.	<u>Kohlrabi</u>	5
G773215.	<u>Muskmelon/Cantaloupe</u>	2
G773216.	<u>Okra</u>	5
G773217.	<u>Yellow Onions</u>	5
G773218.	<u>Red Onions</u>	5
G773219.	<u>White Onions</u>	5
G773220.	<u>Parsnips</u>	5
G773221.	<u>Bell Peppers</u>	5
G773222.	<u>Sweet (Non-Bell) Peppers</u>	5
G773223.	<u>Jalapeño Peppers</u>	5
G773224.	<u>Hot (Non-Jalapeño) Peppers</u>	5
G773225.	<u>White Potatoes</u>	5
G773226.	<u>Red Potatoes</u>	5
G773227.	<u>Russet Potatoes</u>	5
G773228.	<u>Other Potatoes</u>	5
G773229.	<u>Pumpkin</u>	2
G773230.	<u>Miniature Pumpkins</u>	5
G773231.	<u>Radish</u>	5
G773232.	<u>Rhubarb</u>	5

G773233.	<u>Rutabaga</u>	2
G773234.	<u>Green Summer Squash</u>	2
G773235.	<u>Yellow Summer Squash</u>	2
G773236.	<u>White Summer Squash</u>	2
G773237.	<u>Acorn Squash</u>	2
G773238.	<u>Butternut Squash</u>	2
G773239.	<u>Buttercup Squash</u>	2
G773240.	<u>Other Winter Squash</u>	2
G773241.	<u>Sweet Corn (in husks)</u>	5
G773242.	<u>Swiss Chard</u>	5
G773243.	<u>Red Tomatoes (2 inches + in diameter)</u>	5
G773244.	<u>Roma or Sauce-type Tomatoes</u>	5
G773245.	<u>Salad Tomatoes (2 inches - in diameter)</u>	12
G773246.	<u>Yellow Tomatoes (2 inches + in diameter)</u>	5
G773247.	<u>Turnips</u>	5
G773248.	<u>Watermelon</u>	2
G773249.	<u>Dry Edible Beans</u>	1 pint
G773250.	<u>Gourds, mixed types</u>	5
G773251.	<u>Gourds, single variety</u>	5
G773252.	<u>Any other vegetable</u>	2, 5, or 12 (Do not duplicate entries in

classes 201-251 that doesn't fit in any other class.)

G773255. 4-H Vegetable Garden Collection of five kinds of vegetables. Display Garden Collection in a box not more than 24" in any dimension. Boxes may not be returned from State Fair. 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.

G773256. 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 or squash or onions or tomatoes, etc. Display in a box not more than 24" in any dimension. Boxes may not be returned from State Fair. 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 (SF 108)

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 may not be returned from State Fair. Potted herb plants will be disqualified and will not be judged.

G773260.	<u>Basil</u>	5
G773261.	<u>Dill (dry)</u>	5
G773262.	<u>Garlic (bulbs)</u>	5
G773263.	<u>Mint</u>	5
G773264.	<u>Oregano</u>	5
G773265.	<u>Parsley</u>	5
G773266.	<u>Sage</u>	5
G773267.	<u>Thyme</u>	5
G773268.	<u>Any other herb</u>	5 (do not duplicate entries in classes 260-267)

G773269. 4-H Herb Garden Display of 5 different cut herbs. Herbs are to be cut not potted. Displayed in a box or other holder not more than 18" in any dimension. Boxes may not be returned from State Fair. 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 (SF 108)

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.

G773280. <u>Strawberries</u> (everbearers)	1 pint
G773281. <u>Grapes</u>	2 bunches
G773282. <u>Apples</u>	5
G773283. <u>Pears</u>	5
G773284. <u>Wild Plums</u>	1 pint
G773285. <u>Other small fruit or berries</u>	1 pint (do not duplicate entries in classes 280-284)
G773286. <u>Other fruits OR nuts</u>	5 (do not duplicate entries in classes 280-284)

EDUCATIONAL EXHIBITS

G773290. Garden Promotion Poster. (SF 103) 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, county, and years in the project(s) must be on the back of the poster.

G773291. Educational Vegetable or Herb Garden Poster. (SF 104) 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, , county, and years in the project(s) must be on the back of the poster.

G773292. Vegetable and/or Herb Gardening History Interview. (SF 105) 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, county, and years in the project(s) must be on the back of the report cover.

G773293. Vegetable Seed Display. (SF 101) 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 site references on where the scientific name information was found. The 4-H member's name, age, 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.

G773294. World of Vegetables Notebook. (SF 102) 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, , 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 years' Special Garden Project to exhibit. Fresh cut flowers or harvested vegetables should be entered in the appropriate class listed above. The Special Gardening Project changes annually. More information may be found at 4-h Special Garden Project.

G775001. Special Garden Project Educational Exhibit. (SF 109) Educational exhibit based on what was learned from the project. Present information on a poster 14 inches X 22 inches either vertical or horizontal arrangement or in a clear plastic report cover. The 4-H member's name, age, and county must be on the back of the poster or report cover.

G775001. Special Garden Project Fresh Cut Flowers or Harvested Vegetables. (SF 106) (SF 108) The current years' Special Garden Project fresh cut flowers or harvested vegetables should be entered in this class. Refer to classes 001-044 for quantity to exhibit if special garden project is a fresh cut flower. (SF 106) Refer to classes 201-252 for quantity to exhibit if special garden project is a vegetable. Flowers and herbs must be cut not potted. (SF 108)