



# PLANT SCIENCE



DEPARTMENT: PLANT SCIENCE  
AREA: AGRONOMY



## CURRICULUM & RESOURCES

Crop Projects Level 1: Seedy Business **B**

Crop Projects Level 2: Green and Growing **I**

Crop Projects Level 3: Be'an All You Can Be **A**

### DEPARTMENT G – DIVISION 750 – FIELD CROPS



#### AREA RULES – FIELD CROPS

##### 1. Essay

- A two page (maximum) essay must accompany grain and plant exhibits. The essay must include the exhibitors name, county, plant hybrid or variety, plant population, whether crop production was irrigated or dry land, and general information including farm cropping history, soil type and weather effects. The essay 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 essay counts as 50% of the total when judged. Essay must be the original work of the individual exhibitor. Attach the essay to the entry in a clear plastic cover such that it can be read without removing it from the cover. In addition to the essay, 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.

##### 2. 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.

##### 3. Plant Exhibits

- All plant exhibits, with the exception of ears of corn, must be the result of the current year's project.

##### 4. 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 longer 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, and county on back side. Explain Pictures and graphs clearly and concisely. Consider creativity and neatness.
- Each display must have a one page essay (minimum) explaining why the exhibitor chose the area of display and what they learned from their project. Include any references used. The essay should be in a clear plastic cover with the exhibitor's name outside.

**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.**

<i>Division</i>	<i>Class</i>	<i>Pay</i>	<i>Purple</i>	<i>Blue</i>	<i>Red</i>	<i>White</i>
750	001-010		\$2.50	\$2.00	\$1.50	\$1.00

- SF) 001** **Corn** (SF264) – Includes yellow, white, pop, waxy or any other type-10 ears or 3 stalks (cut at ground level with no roots or soil and bound together)
- SF) 002** **Soybeans** (SF264) - Soybeans - 6 stalks (cut at ground level and bound together)
- SF) 003** **Oats** (SF264)
- SF) 004** **Wheat** (SF264)
- SF) 005** **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) 006** **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) 007** **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) 008** **Crop End Use Display** (SF259) – 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.)
- SF) 009** **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) 010** **Career Interview Display** (SF259) – The purpose of this class is to allow youth to investigate a career in agronomy. Youth should interview 1 person that works with crops about such topics as, what parts of their job do they enjoy or dislike, why did they choose that career, what was their education, etc. Include a picture of the person interviewed.
- SF) 011** **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, 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.
- SF) 012** **Special Agronomy Project – Video Presentation** (SF259) – 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) 013** **Special Agronomy Project – Freshly Harvested Crop** (SF259) – Plant exhibits must be the result of the current year’s project. Depending on the type of crop selected for the current year:



**DEPARTMENT: PLANT SCIENCE**  
**AREA: RANGE**



**CURRICULUM & RESOURCES**

Reading the Range		<b>I</b>	
Using Nebraska Range			<b>A</b>
Common Forbs and Shrubs of Nebraska: Prairies, Rangeland, Pasture Lands	<b>B</b>	<b>I</b>	<b>A</b>
Common Grasses of Nebraska: Prairies, Rangeland, Pasture Lands	<b>B</b>	<b>I</b>	<b>A</b>

DEPARTMENT G – DIVISION 751 – WEED SCIENCE

»» DIVISION RULES – WEED SCIENCE

1. Weed Book
  - a. The book cover and specimens must represent this year’s work. Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, and neatness.
  - b. Display one plant on the book cover (no label required on cover specimen). Plants must be mounted on sheets that are no larger than 14” wide by 14” high. Proper plant mount should include root as well as stem and leaf tissue. Plants should be glued rather than taped and the mounts should be protected with a clear cover. Each completed mount must have the following information typed or printed neatly. In the lower right corner of the mounting sheet:
    - i. (1) Scientific name (in italic or underlined), with authority; (2) Common name; (3) County of collection; (4) Collection date; & (5) Collector’s name
    - ii. Personal collection number indicating the order that plants were collected, in your personal collection
    - iii. Other information depending on class selected, i.e., noxious, life form.
2. Weed Display
  - a. 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 longer 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, and county on back side. Explain Pictures and graphs clearly and concisely.
  - b. 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.

<i>Division</i>	<i>Class</i>	<i>Pay</i>	<i>Purple</i>	<i>Blue</i>	<i>Red</i>	<i>White</i>
751	001-004		\$2.50	\$2.00	\$1.50	\$1.00

- SF) 001**      **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, salt cedar, 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. At least three weeds that are primarily in lawns.
- SF) 002**      **Life Span** (SF261) – A collection of 7 perennial, 1 biennial and 7 annual weeds selected from grasses, sedges, or forbs. 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 longer than 28” y 28” on plywood or poster board. The display should be neatly titled. Make sure to label the display with the exhibitor’s name, and county on the back side. Explain pictures and graphs clearly and concisely. 🖱️ **Each display must have a one page essay explaining why the exhibitor chose the area of display and what they learned from their project. Include any references used. The essay should be in a clear plastic cover with the exhibitor’s name outside.**
- SF) 004**      **Weeds Display** (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, the effects of weed control, herbicide resistant weeds, what makes a weed a weed, or uses for weed.

»» DIVISION RULES – RANGE MANAGEMENT

1. Range Book
  - a. 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.
  - b. 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 typed or printed neatly in the lower right corner of the mounting sheet.
    - i. (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.

DEPARTMENT G – DIVISION 330 – RANGE MANAGEMENT

»» DIVISION RULES – RANGE MANAGEMENT (continued)

2. Range Display
  - a. 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, and county on back side.
3. Range Management Boards
  - a. Display boards should be no larger than 30” wide by 36” tall or if hinged in the middle a maximum of 60” wide by 36” tall. Display boards should be adequately labeled.

	<i>Division</i>	<i>Class</i>	<i>Pay</i>	<i>Purple</i>	<i>Blue</i>	<i>Red</i>	<i>White</i>
	330	001-010		\$2.50	\$2.00	\$1.50	\$1.00
<b>SF) 001</b>	<b>Value and Importance for Livestock Forage and Wildlife Habitat and Food Book (SF260)</b> – 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. Plants can consist of any combination of grasses, grass-like plants, forbs, or shrubs. Assemble plant mounts in order of high, medium, or 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. (Range Judging Handbook and Contest Guide, p.3-6)						
<b>SF) 002</b>	<b>Life Span Book (SF260)</b> – A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs.						
<b>SF) 003</b>	<b>Growth Season Book (SF260)</b> – A collection of 6 cool-season grass mounts and 6 warm-season grass mounts.						
<b>SF) 004</b>	<b>Origin Book (SF260)</b> – 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.						
<b>SF) 005</b>	<b>Major Types of Range Plants Book (SF260)</b> – A collection of plant mounts of 3 grasses, 3 forbs, 3 grass-like and 3 shrubs.						
<b>SF) 006</b>	<b>Range Plant Collection Book (SF260)</b> – 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.						
<b>SF) 007</b>	<b>Parts of a Range Plant Poster (SF259)</b> – Mount a range plant on a poster board. Label all the plant parts. Include the plant label in the lower right corner. Put your name and 4-H county on the back of the poster.						
<b>SF) 008</b>	<b>Range Plant Board (SF260)</b> – Will include 25 range forage species important to a particular county and should include: 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 as needed.						
<b>SF) 009</b>	<b>Special Study Board (SF260)</b> – This exhibit should display the results of a clipping study, a degree of use study or a range site study, etc.						
<b>SF) 010</b>	<b>Junior Rancher Board (SF260)</b> – This exhibit should include a ranch map with a record book or an appropriate educational display on some phase of rangeland or livestock management.						



DEPARTMENT: PLANT SCIENCE  
 AREA: HORTICULTURE







**CURRICULUM & RESOURCES**

The World of Flowers	B	I	A
Flowers 2: All About Flowers	B	I	A
Growing Great Houseplants	B	I	A
Everyone a Gardener	B	I	A
Gardening A: See Them Sprout	B		
Gardening B: Let’s Get Growing		I	
Gardening C: Take Your Pick		I	
Gardening D: Growing Profits			A
Grow a Beautiful Space 1: Youth Manual	B		

**DEPARTMENT G – DIVISION 770 – FLORICULTURE, EDUCATIONAL EXHIBITS & HOUSEPLANTS**

»»» **DIVISION RULES – FLORICULTURE, EDUCATIONAL EXHIBITS & HOUSEPLANTS**

1. Floriculture
  - a. Youth may enter a maximum of 4 entries per person in classes 1-46 and 50-53.
  - 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. Keep your seed package or identification label at planting time.
  - c. In classes 23, 44, 45 & 46 do not duplicate entries with the classes listed by using other cultivars or varieties, or entry will be dropped on 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 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.
  - d.  **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 and of adequate size to display blooms.
2. Educational Exhibits
  - a. Youth may enter a maximum of 4 entries per person in classes 50-53.
  - b. Poster no larger than 14" x 22" x 2" (3-dimensional if needed).
  - c. Entry card must be stapled to the upper right hand corner.
  - d.  **The 4-H member's name, age, county and years in the project(s) must be on the back of the poster or notebook.**
3. Houseplants
  - a. Youth may enter a maximum of 3 entries in classes 50-66. Youth must enroll in Growing Great Houseplants project to exhibit in 50-66.
  - b. Container Grown Houseplants –  **Each houseplant must be identified by listing the names on the entry tag or on a card attached to the container.** The choice of container and soil quality will be considered in judging. Houseplants should be grown in the display container for a minimum of six weeks.
  - c. Containers of annual flowers or annual plants will be disqualified and will not be judged. Entries in Classes 066 must have been designed and planted by the 4H member.
  - d. Container grown houseplants shall be in pots no greater than 12" in diameter (inside opening measurement).
  - e. Dish gardens, fairy or miniature gardens, desert gardens and terrariums may be up to 12" in diameter (inside opening measurement).
  - f. The 4H members name, age, county, and years in the project(s) must be on the bottom or back of the container and saucer.

Division	Class	Pay	Purple	Blue	Red	White
770	001-066		\$2.50	\$2.00	\$1.50	\$1.00
770	901-904		\$2.50	\$2.00	\$1.50	\$1.00

**ANNUALS AND BIENNIALS (SF106)**

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

SF) 001	<b>Aster</b>	SF) 010	<b>Foxglove</b>
SF) 002	<b>Bachelor Buttons</b>	SF) 011	<b>Gladiolus</b> – 3 stems
SF) 003	<b>Bells of Ireland</b>	SF) 012	<b>Gomphrena</b>
SF) 004	<b>Browallia</b>	SF) 013	<b>Hollyhock</b> – 3 stems
SF) 005	<b>Calendula</b>	SF) 014	<b>Marigold</b>
SF) 006	<b>Celosia</b> – crested or plume, 3 stems	SF) 015	<b>Pansy</b>
SF) 007	<b>Cosmos</b>	SF) 016	<b>Petunia</b>
SF) 008	<b>Dahlia</b>	SF) 017	<b>Salvia</b>
SF) 009	<b>Dianthus</b>	SF) 018	<b>Snapdragon</b>

<b>SF) 019</b>	<b>Statice</b>	<b>SF) 022</b>	<b>Zinnia</b>
<b>SF) 020</b>	<b>Sunflower</b> – under 3” in diameter – 5 stems; 3” or more in diameter 3 stems	<b>SF) 023</b>	<b>Any other annual or biennial</b> – under 3” in diameter 5 stems, 3” or more in diameter 3 stems
<b>SF) 021</b>	<b>Vinca</b>		

#### PERENNIALS (SF106)

*Cut Flower Perennials - 5 stems of a single variety (cultivar) unless noted.*

<b>SF) 030</b>	<b>Achillea/Yarrow</b>	<b>SF) 039</b>	<b>Lilies</b> – 3 stems, not Daylilies
<b>SF) 031</b>	<b>Chrysanthemum</b>	<b>SF) 040</b>	<b>Platycodon</b>
<b>SF) 032</b>	<b>Coneflower</b>	<b>SF) 041</b>	<b>Rose</b> – 3 stems
<b>SF) 033</b>	<b>Coreopsis</b>	<b>SF) 042</b>	<b>Rudbeckia/Black-eyed Susan</b>
<b>SF) 034</b>	<b>Daisy</b>	<b>SF) 043</b>	<b>Sedum</b>
<b>SF) 035</b>	<b>Gaillardia</b>	<b>SF) 044</b>	<b>Statice</b>
<b>SF) 036</b>	<b>Helianthus</b>	<b>SF) 045</b>	<b>Any other perennial</b> – under 3” in diameter 5 stems, 3” or more in diameter 3 stem
<b>SF) 037</b>	<b>Hydrangea</b> – 3 stems		
<b>SF) 038</b>	<b>Liatris</b> – 3 stems		

**SF) 046** **4-H Flower Garden Collection of 5 Different Flowers (SF106)** – 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 will not be returned from State Fair.)

#### EDUCATIONAL EXHIBITS

- SF) 050** **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-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, county and years in the project(s) must be on the back of the notebook.
- SF) 051** **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) 052** **Educational Flower Garden Poster (SF104)** – 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, county and years in the project(s) must be on the back of the poster.
- SF) 053** **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, county, and years in the project(s) must be on the back of the report cover.

#### HOUSEPLANTS



- SF) 060** **Flowering Potted Houseplant (SF107)** – Plant should be blooming for exhibition. Non-blooming plants will be disqualified. Container may have one or more houseplants in container. Label with the name for each plant.
- SF) 061** **Foliage Potted Houseplant (SF107)** – one variety of tropical or cacti or succulent plant. Label with name of plant.
- SF) 062** **Hanging Basket (SF107)** – May be flowering and/or foliage plants. Container may have one or more houseplants in container. Label with name for each plant.
- SF) 063** **Dish Garden (SF107)** – An open/shallow container featuring a variety of plants excluding cacti and succulents. Label with the name for each plant.
- SF) 064** **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, i.e., bench, fence made from tiny twigs, small shell for a bathtub, etc. Label with the name for each plant.

- SF) 065 **Desert Garden** (SF107) – An open/shallow container featuring a variety of cacti and/or succulents grown as houseplants. Label with the name for each plant.
- SF) 066 **Terrarium** (SF107) – A transparent container, partially or completely enclosed; sealed or unsealed. Label with the name for each plant.
- C) 901 **Other Container Grown Plants** (SF\_\_)
- C) 902 **Original Arrangement** (SF107) – An original arrangement made with flowers from your gardening project. No purchased flower accepted. No larger than 12" x 12".
- C) 903 **Original Arrangement** (SF107) – An original arrangement made with a combination of native grasses, flowers, vines, or other nature materials. No larger than 18" x 18".
- C) 904 **Original Arrangement** (SF107) – An original arrangement made with a combination of materials such as vegetables, flowers from your gardening project or native materials, etc. No larger than 18" x 18".

**DEPARTMENT G – DIVISION 773 – VEGETABLES, HERBS & FRUITS**

»» DIVISION RULES – VEGETABLES, HERBS & FRUITS

- 2. Vegetables
  - a. Youth may enter a maximum of 4 entries.
  - 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. Keep your seed package at planting time.
- 3. Herbs
  - a. Those grown mainly for their seed, such as dill and caraway, should be exhibited on a plate.
  - b. Those grown for their leaves such as basil, parsley, etc. should be exhibited in a clear glass container of water.
- 4. Educational Exhibits
  - a. Poster no larger than 14" x 22" x 2" (3-dimensional if needed).
  - b. Entry card must be stapled to the upper right hand corner.
  - c.  **The 4-H member's name, age, county and years in the project(s) must be on the back of the**

<i>Division</i>	<i>Class</i>	<i>Pay</i>	<i>Purple</i>	<i>Blue</i>	<i>Red</i>	<i>White</i>
773	201-294		\$2.50	\$2.00	\$1.50	\$1.00

VEGETABLES (SF108)

SF) 201	<b>Lima Beans</b> – 12 beans	SF) 218	<b>Red Onions</b> – 5 onions
SF) 202	<b>Snap Beans</b> – 12 beans	SF) 219	<b>White Onions</b> – 5 onions
SF) 203	<b>Wax Beans</b> – 12 beans	SF) 220	<b>Parsnips</b> – 5 parsnips
SF) 204	<b>Beets</b> – 5 beets	SF) 221	<b>Bell Peppers</b> – 5 peppers
SF) 205	<b>Broccoli</b> – 2 stalks	SF) 222	<b>Sweet (Non-Bell) Peppers</b> – 5 peppers
SF) 206	<b>Brussels Sprouts</b> – 12 sprouts	SF) 223	<b>Jalapeno Peppers</b> – 5 peppers
SF) 207	<b>Green Cabbage</b> – 2 heads	SF) 224	<b>Hot (Non-Jalapeno) Peppers</b> – 5 peppers
SF) 208	<b>Red Cabbage</b> – 2 heads	SF) 225	<b>White Potatoes</b> – 5 potatoes
SF) 209	<b>Carrots</b> – 5 carrots	SF) 226	<b>Red Potatoes</b> – 5 potatoes
SF) 210	<b>Cauliflower</b> – 2 stalks	SF) 227	<b>Russet Potatoes</b> – 5 potatoes
SF) 211	<b>Slicing Cucumber</b> – 2 cucumbers	SF) 228	<b>Other Potatoes</b> – 5 potatoes
SF) 212	<b>Pickling Cucumbers</b> – 5 cucumbers	SF) 229	<b>Pumpkin</b> – 2 pumpkins
SF) 213	<b>Eggplant</b> – 2 eggplant	SF) 230	<b>Miniature Pumpkins (Jack Be Little)</b> – 5 pumpkins
SF) 214	<b>Kohlrabi</b> – 5 kohlrabi	SF) 231	<b>Radish</b> – 5 radishes
SF) 215	<b>Muskmelon/Cantaloupe</b> – 2 melons	SF) 232	<b>Rhubarb</b> – 5 stalks
SF) 216	<b>Okra</b> – 5 okra	SF) 242	<b>Swiss Chard</b> – 5 stalks
SF) 217	<b>Yellow Onions</b> – 5 onions	SF) 243	<b>Red Tomatoes</b> – 5 tomatoes, 2" or more in diameter
SF) 233	<b>Rutabaga</b> – 2 rutabaga	SF) 244	<b>Roma/Sauce Tomatoes</b> – 5 tomatoes
SF) 234	<b>Green Summer Squash</b> – 2 squash	SF) 245	<b>Salad Tomatoes</b> – 12 tomatoes, under 2" in diameter
SF) 235	<b>Yellow Summer Squash</b> – 2 squash	SF) 246	<b>Yellow Tomatoes</b> – 5 tomatoes, 2" or more in diameter
SF) 236	<b>White Summer Squash</b> – 2 squash	SF) 247	<b>Turnips</b> – 5 turnips
SF) 237	<b>Acorn Squash</b> – 2 squash		
SF) 238	<b>Butternut Squash</b> – 2 squash		
SF) 239	<b>Buttercup Squash</b> – 2 squash		
SF) 240	<b>Other Winter Squash</b> – 2 squash		
SF) 241	<b>Sweet Corn</b> – 5 ears in husks		

- SF) 248 **Watermelon** – 2 melons  
 SF) 249 **Dry Edible Beans** – 1 pint  
 SF) 250 **Gourds** – 5 gourds, mixed types
- SF) 251 **Gourds** – 5 gourds, single variety
- SF) 252 **Any other vegetable** (SF108) – Vegetable that does not fit in any other class 2, 5 or 12 (do not duplicate entries in classes 201-251) that doesn't fit in any other class.
- SF) 255 **4-H Vegetable Garden Collection** (SF108) – Five kinds of vegetables displayed in a box not more than 24" in any dimension. Boxes will 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) 256 **4-H Cultivar Vegetable Collection** (SF108) – 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. State Fair – Boxes will 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).

HERBS (SF108)

- |         |                           |         |                           |
|---------|---------------------------|---------|---------------------------|
| SF) 260 | <b>Basil</b> – 5          | SF) 265 | <b>Parsley</b> – 5        |
| SF) 261 | <b>Dill (dry)</b> – 5     | SF) 266 | <b>Sage</b> – 5           |
| SF) 262 | <b>Garlic (bulbs)</b> – 5 | SF) 267 | <b>Thyme</b> – 5          |
| SF) 263 | <b>Mint</b> – 5           | SF) 268 | <b>Any Other Herb</b> – 5 |
| SF) 264 | <b>Oregano</b> – 5        |         |                           |
- SF) 269 **4-H Herb Garden** (SF108) – 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. 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) 280 | <b>Strawberries</b> – 1-pint ever bearers | SF) 284 | <b>Wild Plums</b> – 1 pint                   |
| SF) 281 | <b>Grapes</b> – 2 bunches                 | SF) 285 | <b>Other Small Fruit or Berries</b> – 1 pint |
| SF) 282 | <b>Apples</b> – 5 apples                  | SF) 286 | <b>Other Fruits or Nuts</b> – 5 items        |
| SF) 283 | <b>Pears</b> – 5 pears                    |         |  |

EDUCATIONAL EXHIBITS

- SF) 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 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) 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-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, county, and years in the project(s) must be on the back of the poster.
- SF) 292 **Vegetable and/or Herb Gardening History Interview** (SF105) – 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, county, and years in the project(s) must be on the back of the report cover.
- SF) 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 4H member's name, age, county, and years in the project(s) must be on the back of the display.

SF) 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-Her member's name, age, county, and years in the project(s) must be on the back of the report cover or notebook.



**DEPARTMENT: PLANT SCIENCE**  
**AREA: LANDSCAPE DESIGN**



**CURRICULUM & RESOURCES**

Grow a Beautiful Space 1: Youth Manual

**B**

Grow a Beautiful Space 2: Youth Manual

**I**

Grow a Beautiful Space 3: Youth Manual

**A**

**DEPARTMENT G – DIVISION 777 – LANDSCAPE: GROW A BEAUTIFUL SPACE**

Division	Class	Pay	Purple	Blue	Red	White
777	All Classes		\$2.50	\$2.00	\$1.50	\$1.00

SF) 401

**Grow a Beautiful Space Unit 1 Portfolio Notebook** (SF110) – Create and complete 'Landscape Professionals & Design Principles' Unit 1 Portfolio, 4H6110P. Present portfolio information in a three ring binder. Give proper credit by listing the sources of photographs/images and information used. The 4-Her member's name, age, county, and years in the project(s) must be on the back of the report cover or notebook.

SF) 402

**Establish Landscape Analysis Poster** (SF110) – Take multiple photographs of a landscape that has been established for 10 or more years. Critique the landscape based on each of the design principles (order, unity, rhythm, balance, scale or proportion, and emphasis). Describe the spatial definition of the landscape and what different areas of the landscape "feel like". Include photos taken to support your critique. Describe what changes need to be made in the landscape to improve its characteristics and sense of space. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

SF) 403

**Grow a Beautiful Space Unit 2 Portfolio Notebook** (SF111) – Create and complete 'Landscape Plants & Materials' Unit 2 Portfolio, 4H6120P. Present portfolio information in a three ring binder. Give proper credit by listing the sources of photographs/images and information used. The 4-Her member's name, age, county, and years in the project(s) must be on the back of the report cover or notebook.

SF) 404

**Landscape Renovation Poster** (SF111) – Take multiple photographs of a landscape that doesn't quite look right because it doesn't reflect sound design principles. Select a landscape in which you can make at least three design recommendations. Identify how the design principles (order, unity, rhythm, balance, scale or proportion, and emphasis) could be better integrated into the landscape, and how plants or materials with specific features (size, form, color, or texture) could improve the space. Reduce the opaqueness of the images to 50-60 percent and sketch plants, structures, materials, and/or amenities that could improve the overall design over the original images. The poster should include the original image(s) and improved image(s) and include a short explanation of how the landscape design was improved. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

SF) 405

**Estimating Dreams Poster** (SF111) – elect a dream landscape as if money is not a consideration. Develop a plan drawing of the landscape. Draw landscape to scale. Identify the types of plants, structures, and amenities used in the landscape. Research the cost of the plants and amenities and the installation. Include the general cost of grading (if needed) and labor that could be associated with installation. Create a list, noting the plants that are included in the space. The quantities of plants and the structures, materials, or amenities and their cost should be included. Calculate the final total estimate. The poster should include the scale drawing of the landscape, identification of plants, structures and amenities, and cost and labor. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

SF) 406

**Site Inventory & Analysis Poster** (SF111) – Make an unscaled drawing of the landscape you inventoried and analyzed. Develop two drawings: a site inventory and a site analysis. The site inventory and site analysis should be communicated through a combination of written notes, graphics symbols and

photographs. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

**SF) 407**

**Community Landscape Poster (SF111)** – Identify a local community space (park, nursing home, school, county fairgrounds, etc.) that needs some landscape improvements. Work through the design process and develop a detailed plan of your improvements to the space. The plan should include design principles, functional and aesthetic factors, a list of plants and materials and their costs, budget for materials, labor you have available for the project, and a timeline. Take photographs of the area and draw over the photos to illustrate your final ideas. Include photographs of the finished landscape if project ideas were carried out. The 4-H member's name, age, county, and years in the project(s) must be on the back of the poster.

**SF) 408**

**Renovate the Outdoors Portfolio (SF111)** – Select a space that you would like to redesign. The space can be at your home, a family member's, or friend's house, or somewhere in your community. Develop a scaled base map of the site and locate the existing plants and structures in the landscape. Take photographs of the landscape. Evaluate the physical properties of the site and conduct an interview with the people who live there or use the space. Think about how you would change the space and develop a plan that would implement design elements into the space. Create different drawings that will move you through the design process. You will draw concept diagrams, form compositions, preliminary drawings, and the final design. Once the final design drawing is complete, use overlays on the original photographs to show how the landscape will look compared to how it looked in the photo you originally took of the landscape. Place photographs, interview notes, concept and program statements and drawings in a portfolio. The 4-H member's name, age, county, and years in the project(s) must be on the back of the report cover.

#### **DEPARTMENT G – DIVISION 775 – SPECIAL GARDEN PROJECT**

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

**The 2023 Special Garden Project is focused on Mrs. Burns' Lemon Basil.**

**SF) 001**

**Special Garden Project Educational Exhibit (SF109)** – Educational exhibit based on what was learned from the project. Present information on a poster 14"x22" 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.

**SF) 002**

**Special Garden Project Fresh Cut Flowers, Herbs, or Vegetables (SF106/SF108/SF109)** - 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. Flowers and herbs must be cut, not potted.