

- Take three photos that showcase each lesson, for example 3 photos using different shutter speeds or 3 photos showcasing the Rule of Thirds. You will take 12 photos in all.
- Mount 4 x 6 photos on an 8 1/2" x 11" on white paper. For each set of three photos include a short paragraph describing the lesson you are illustrating and changes you made to your camera settings for each photo (shutter speed, aperture, type of lighting). You may also draw the rule of thirds or golden photo on your photos.
- Place pages in an 8 1/2" x 11" black or white three-ring binder. Plastic sleeves are recommended for each page.
- Showcase Data Tags are required (See General Rule H). For your showcase complete only the Showcase Data Tag and include this as page one of your showcase.

Unit 2 Classes

- B-181-010 Controlling the Image Showcase - An entry will consist of a three-ring binder of three 4 x 6 photos showcasing four lessons addressed in the Level 2 project manual titled "Controlling the Image". A showcase will include a total of 12 photos. Scoresheet SF86.98(4)
- B-181-020 Manual Setting Exhibit Print - Entry will consist of a print that showcases the participant's ability to master the manual settings on the camera. 1) Manual Focus, 2) Manual Aperture, 3) Manual Shutter Speed, 4) Combination of any of the listed techniques, 5) Other technique not listed. (Controlling the Image, p. 10-17) Scoresheet SF86.98(2)
- B-181-030 Lighting Display or Exhibit print - Entry will consist of a display of 3 pictures of 3 different subjects or an exhibit print that demonstrates lighting effects. (Low lighting, Hard Lighting, Soft Lighting, Silhouettes and Lighting with a Flash). (Controlling the Image, p. 18-33) Scoresheet SF86.98(2)
- B-181-040 Composition Display or Exhibit Print - Entry will consist of 3 completely different views or angles of the same subject or a print that illustrates one of the following composition lesson in the Level 2 Project Manual (Rule of Thirds, The Golden Photo, Space Tells the Story, Building a Photo, and Capture a Candid Photo. (Controlling the Image, p. 34-53). Scoresheet SF86.98(2)
- B-181-050 Smart Phone Candid Capture Display or Exhibit Print - Entry will consist of a display of 3 pictures of 3 different candid shots or an exhibit print that captures a candid, un-posed moment. *This class is only for photos captured on mobile device (phone or tablet.) (Controlling the Image, p. 50-51) Scoresheet SF86.98(2)
- B-181-060 Nebraska Exhibit Print - Reflect your definition of rural Nebraska. Capture rural living in your Nebraska county through your camera lens. Use your photo to express what rural means to you, why you value rural life or how rural life is changing. This is your story to tell. Scoresheet SF86.98(2)

Division 182 – Mastering Photography - Unit 3 Guidelines

A. Unit 3 Exhibit Prints:

- All exhibit prints are 8" x 10" prints mounted in 11" x 14" (outside size) cut matting (no frames) with a sandwich mat-board backing (not foam board); rectangular or oval inside mat opening.
- Place photos horizontally or vertically as appropriate.
- Unit 3 Data Tags are required. (See General Rule H.)
- Note: Manual adjustments are strongly encouraged for Unit 3 Exhibits.

B. Unit 3 Photography Portfolio:

- Select ten photos from your 4-H career that represent the strongest collection of your work.
- Photos may have been taken at any time during the 4-H experience and may have been previously exhibited. Photos can only be used in a portfolio once.
- Place photos in plastic sleeves and present them in an 8 1/2" x 11" black or white 3 ring binder. No matting is necessary.
- On the first page of the portfolio include a table of contents listing a title for each photo in your collection and a narrative describing the overall intent for the portfolio. For example, the portfolio could include a range of your work from your earlier years in 4-H photography to the present, you could have a creative theme for your portfolio or you could include photos that illustrate your diverse photography skills.
- Unit 3 Data Tags are required along with supporting information. On the page prior to EACH photo include an information sheet for each photo that includes 1) Unit 3 Tag, 2) the photograph title and 3) a paragraph describing how the photo contributes to the overall intent of your portfolio. The information sheet and the photo should create a 2-page layout so that when the portfolio is open the information sheet is the page on the left and the photo is the page on the right.

Unit 3 Classes

- B-182-010 Photography Portfolio - An entry will consist of ten photos that represent the strongest

collection of the participant's work. See the notes above regarding details for the class. Scoresheet SF86.98(5)

B-182-020 Advanced Lighting Exhibit Print - Entry will consist of a print that illustrates creative lighting. (Mastering Photography, p. 18-33) Scoresheet SF86.98(3)(6)

B-182-030 Breaking The Rules - Entry will consist of a print that presents a unique focal point and uses different viewpoint, lines, shapes and spacing to create a compelling image. (Mastering Photography, p. 34-41_ Scoresheet SF86.98(3)(6)

B-182-040 Portrait Exhibit Print - Entry will consist of a print that captures both physical characteristics and personality in their subjects. (Mastering Photography, p. 46-53) Scoresheet SF86.98(3)(6)

B-182-050 Challenging Exhibit Print - Entry will consist of a print that illustrates a special effect: 1) Double Exposure, 2) Light Painting, 3) Flash Multiple Exposure, 4) Filters (Mastering Photography, p. 14-17), 5) Night Time Exposure (Mastering Photography, p.22-25), 6) Digitally altered photos, 7) Other technique not listed. (Mastering Photography, p. 66-69) Scoresheet SF86.98(3)(6)

B-182-060 Nebraska Exhibit Print - Reflect your definition of rural Nebraska. Capture rural living in your Nebraska county through your camera lens. Use your photo to express what rural means to you, why you value rural life or how rural life is changing. This is your story to tell. Scoresheet SF86.98(3)(6)

Photos entered into the Unit III Classes at the State Fair will receive a cumulative score from three judges. Each judge can award up to five points. Exhibits are judged on the technical and artistic criteria including focus, exposure, lighting, composition, creativity and appeal. Scores in the Nebraska Career Exhibit print class will also reflect the creativity and originality of the photo and how successfully the exhibit captures the intent of the class. SF86.98(6) SF86.98(6): This score sheet is for State Fair use only.

DEPARTMENT G – HORTICULTURE

Division 770 – Floriculture, Educational Exhibits & Houseplants

Class 1 - 44 Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

Class 45 - Purple \$6.00, Blue \$6.00, Red \$5.50, White \$5.00

Class 50 - 65 Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

FLORICULTURE

Youth must be enrolled in the WORLD OF FLOWERS, ANNUAL FLOWERS projects and/or SPECIAL GARDEN PROJECT to exhibit a maximum of four (4) exhibits per person in classes 1-45 (cut flowers) and 50-53 (educational exhibits). Exhibits are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER. Notebooks and posters must have received a purple ribbon at the county fair to advance to the State Fair.

THE CULTIVAR OR VARIETY NAME MUST BE INCLUDED ON ALL ENTRY CARDS. Failure to identify the cultivar or variety will drop 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.

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 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 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 at State Fair) and of adequate size to display blooms. Containers will not be returned at State Fair. At County Fair, containers will be returned. Scoresheet SF106

Follow the guidelines in "4-H Preparing Cut Flowers for Exhibits" 4H227 (revised 2016) (Free download - <https://unl.box.com/s/2f3a785c67p7qhqasevp6gu6adf3ugon>) when preparing entries for the fair.

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

G-770-001 Aster

G-770-002 Bachelor Buttons

G-770-003 Bells of Ireland

G-770-004 Browallia

G-770-013 Hollyhock (3 stems)

G-770-014 Marigold

G-770-015 Pansy

G-770-016 Petunia

- G-770-005 Calendula
- G-770-006 Celosia (crested or plum) (3 stems)
- G-770-007 Cosmos
- G-770-008 Dahlia
- G-770-009 Dianthus
- G-770-010 Foxglove
- G-770-011 Gladiolus (3 stems)
- G-770-012 Gomphrena

- G-770-017 Salvia
- G-770-018 Snapdragon
- G-770-019 Statice
- G-770-020 Sunflower (under 3" diameter-5 stems, 3" or more diameter-3 stems)
- G-770-021 Vinca
- G-770-022 Zinnia
- G-770-023 Any other annual or biennial (Under 3" diameter-5 stems, 3" or more in diameter-3 stems) (do not duplicate entries in classes 1-22)

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

- G-770-030 Achillea/Yarrow
- G-770-031 Chrysanthemum
- G-770-032 Coneflower
- G-770-033 Coreopsis
- G-770-034 Daisy
- G-770-035 Gaillardia
- G-770-036 Helianthus
- G-770-037 Liatris (3 stems)
- G-770-038 Lilies (3 stems) (Not Daylilies)
- G-770-039 Platycodon
- G-770-040 Rose (3 stems)
- G-770-041 Rudbeckia/Black-eyed Susan
- G-770-042 Sedum
- G-770-043 Statice
- G-770-044 Any Other Perennial (Under 3" diameter-5 stems, 3" or more in diameter-3 stems) (Do not duplicate entries in classes 30-43)

G-770-045 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" in any dimension. Boxes will not be returned at State Fair. At County Fair, containers will be returned. Do not duplicate entries in classes 1-44 with any in the group collection.

Educational Exhibits

- G-770-050 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-H'ers may show more than one cultivar of the same species, but they will only count as one species. The notebook must be the result of the current year's work. Pictures from garden catalogs, hand drawn pictures, or photographs may be used. Each species/cultivar must be labeled with the correct common name and scientific name; the height and spread of the plant and the growing conditions (for example: needs full sun and dry sandy soil) the species prefers. In addition to this information, bulbs should also be labeled as spring or summer flowering. Give proper credit by listing the sources of pictures and information used. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the notebook. Scoresheet SF100
- G-770-051 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 paper clipped 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. Scoresheet SF103
- G-770-052 Educational Flower Garden Poster - Prepare a poster 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 paper clipped 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. Scoresheet SF104
- G-770-053 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. Scoresheet SF105

HOUSEPLANTS: Youth must be enrolled in the Growing Great Houseplants project to exhibit in classes 60-66. Youth may enter a maximum of three entries in classes 50-66, but each entry must

have received a purple ribbon at the county fair to advance to the State Fair. The entries must be the result of the current year's work.

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 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/htmlg2205/build/g2205.htm>) and NebGuide G837 "Guide to Selecting Houseplants" (<http://extensionpublications.unl.edu/assets/htmlg837/build/g837.htm>) includes a listing of common houseplants. Containers of annual flowers or annual plants (i.e. petunias, geraniums, impatiens) will be dropped one ribbon placing. 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 member's name, age, full address, county and years in project(s) must be on the bottom or back of the container and saucer. Scoresheet SF107

G-770-060 Flowering potted houseplant(s) that are blooming for exhibition. Non-blooming plants will be disqualified.

G-770-061 Foliage potted houseplant(s) of all the same variety

G-770-062 Hanging baskets of flowering and/or foliage houseplants

G-770-063 Dish garden – an open/shallow container featuring a variety of houseplants excluding cacti and succulents.

G-770-064 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.

G-770-065 Desert garden – an open/shallow container featuring cacti and/or succulents grown as houseplants.

G-770-066 Terrariums – a transparent container, partially or completely enclosed; sealed or unsealed.

Division 773 – VEGETABLES, HERBS, FRUITS, & EDUCATIONAL EXHIBITS

Classes 201-252, 260-268, 280-286: Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

Classes 290-294, 001: Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

Classes 255, 256, 269: Purple \$6.00, Blue \$6.00, Red \$5.50, White \$5.00

Classes 401-408: Purple \$3.00, Blue \$3.00, red \$2.50, White \$2.00

Youth must be enrolled in the Everyone A Gardener Project and/or Gardening Unit 1 - Unit 4 and/or Special Garden Project to exhibit. An exhibitor may enter a maximum of FOUR (4) entries per person in classes 201-294. Exhibits are limited to ONE EXHIBIT PER EXHIBIT CLASS NUMBER. Notebooks and posters must have received a purple ribbon at the county fair to advance to the State Fair.

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. Scoresheet SF108.

Follow the guidelines in "Selecting and Preparing Vegetables, Herbs and Fruits for Exhibit" 4H226 (revised June 2013) (Free download - <http://4h.unl.edu/4hcurriculum/preparingvegetables/herbsandfruit>) when preparing entries for the fair.

Class	Vegetable	No. to Exhibit
G-773-201	Lima Beans	12
G-773-202	Snap Beans	12
G-773-203	Wax Beans	12
G-773-204	Beets	5
G-773-205	Broccoli	2
G-773-206	Brussel Sprouts	12
G-773-207	Green Cabbage	2
G-773-208	Red Cabbage	2

G-773-209 Carrots	5
G-773-210 Cauliflower	2
G-773-211 Slicing Cucumbers	2
G-773-212 Pickling Cucumbers	5
G-773-213 Eggplant	2
G-773-214 Kohlrabi	5
G-773-215 Muskmelon/Cantaloupe	2
G-773-216 Okra	5
G-773-217 Yellow Onions	5
G-773-218 Red Onions	5
G-773-219 White Onions	5
G-773-220 Parsnips	5
G-773-221 Bell Peppers	5
G-773-222 Sweet Non-Bell Peppers	5
G-773-223 Jalapeno Peppers	5
G-773-224 Hot (Non-Jalapeno) Peppers	5
G-773-225 White Potatoes	5
G-773-226 Red Potatoes	5
G-773-227 Russet Potatoes	5
G-773-228 Other Potatoes	5
G-773-229 Pumpkin	2
G-773-230 Miniature Pumpkins (Jack Be Little type)	5
G-773-231 Radish	5
G-773-232 Rhubarb	5
G-773-233 Rutabaga	2
G-773-234 Green Summer Squash	2
G-773-235 Yellow Summer Squash	2
G-773-236 White Summer Squash	2
G-773-237 Acorn Squash	2
G-773-238 Butternut Squash	2
G-773-239 Buttercup Squash	2
G-773-240 Other Winter Squash	2
G-773-241 Sweet Corn (in husks)	5
G-773-242 Swiss Chard	5
G-773-243 Red Tomatoes (2" or more in diameter)	5
G-773-244 Roma or Sauce-type Tomatoes	5
G-773-245 Salad Tomatoes (under 2" in diameter)	12
G-773-246 Yellow Tomatoes (2" or more in diameter)	5
G-773-247 Turnips	5
G-773-248 Watermelon	2
G-773-249 Dry Edible Beans	1 pint
G-773-250 Gourds, mixed types	5
G-773-251 Gourds, single variety	5
G-773-252 Any Other Vegetables	2, 5 or 12 - doesn't fit in any other class (Do not duplicate entries in classes 201-251)

G-773-255 4-H Vegetable Garden Collection of Five (5) Kinds of Vegetables. Display Garden Collection in a box not more than 24" in any dimension. Boxes will not be returned at 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 class 201-252. Do not duplicate entries in classes 201-252 with any in the group collection.

G-773-256 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 or squash or onions or tomatoes, etc. Display in a box not more than 24" in any dimension. Boxes will not be returned at 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

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 cannot be returned at State Fair. At County Fair, containers will be returned. Potted herb plants will be disqualified and will not be judged. Scoresheet SF108.

G-773-260 Basil	5	G-773-265 Parsley	5
G-773-261 Dill (dry)	5	G-773-266 Sage	5
G-773-262 Garlic (bulbs)	5	G-773-267 Thyme	5
G-773-263 Mint	5	G-773-268 Any Other Herb	5 (Do not duplicate entries in classes 260-267)
G-773-264 Oregano	5		

G-773-269 4-H Herb Garden Display of 5 different herbs. Display in a box or other holder not more than 18" in any dimension. Boxes will not be returned at 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

Fruit will be judged using the same general criteria used for vegetables. Fruit will be judged for the stage of maturity normal for that season and growing location. Emphasis will be placed on how well fruit approaches market quality. Score Sheet SF108

G-773-280 Strawberries (everbearers)	1 pint
G-773-281 Grapes	2 bunches
G-773-282 Apples	5
G-773-283 Pears	5
G-773-284 Wild Plums	1 pint
G-773-285 Other small fruit or berries	1 pint (Do not duplicate entries in classes 280-284)
G-773-286 Other fruit or nuts	5 (Do not duplicate entries in classes 280-284)

Educational Exhibits

G-773-290 Garden Promotion Poster

Individual poster promoting vegetable and/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 paper clipped to the upper right hand corner. The 4-H member's name, age, full address, county, and years in project(s) must be on the back of the poster. Scoresheet SF103

G-773-291 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-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 your 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 paper clipped to the upper right hand corner. The 4-H member's name, age, full address, county, and years in project(s) must be on the back of the poster. Scoresheet SF104

G-773-292 Vegetable and/or Herb Gardening History Interview

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

G-773-293 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 site references on where the scientific name information was found. The 4-H'ers member's name, age, full address, county, and years in the project(s) must be on the back of the display. Information on vegetable family members can be obtained from your Extension office. Scoresheet SF101

G-773-294 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 a minimum of 5 vegetables and/or herbs from each country chosen. Include the scientific and common names; pictures of the plants from your garden or seed catalogs; tell how they are grown; and how the foods are used. Also list a source for buying the seed or plants. Favorite recipes using some or all of the vegetables described may be included. Give proper credit by listing the source of pictures and information used. Protect in a clear report cover or 3-ring notebook. The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the report cover or notebook. Scoresheet SF102

Division 775 - Special Garden Project

Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

Youth must be enrolled in the State 2017 'Sunburst Summer Squash', Special Garden Project to exhibit. Fresh cut flowers or harvested vegetables should be entered in the appropriate class listed above.

G-775-001 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. Scoresheet SF109

Division 777 - Landscape: Grow a Beautiful Space

Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

Youth must be enrolled in the **Landscape Professionals & Design Principles Unit 1, Landscape Plants & Materials Unit 2 and Landscape Graphics & the Design Process Unit 3** to exhibit.

G-777-401 Grow a Beautiful Space Unit 1 Portfolio Notebook - 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-H member's name, age, full address, county, and years in the project(s) must be on the back of the notebook. Scoresheet SF110

G-777-402 Establish Landscape Analysis Poster - 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. Display on a poster mat board no larger than 22" x 28". 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. Scoresheet SF111

G-777-403 Grow a Beautiful Space Unit 2 Portfolio Notebook - 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-H member's name, age, full address, county, and years in the project(s) must be on the back of the notebook. Scoresheet SF110

G-777-404 Landscape Renovation Poster - 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. Display on a poster mat board no larger than 22" x 28". 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 notebook. Scoresheet SF111

G-777-405 Estimating Dreams Poster - Select 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. Display on a poster mat board no larger than 22" x 28". 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 notebook. Scoresheet SF111
- G-777-406 Site Inventory & Analysis Poster - 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. Display on a poster mat board no larger than 22" x 28". 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. Scoresheet SF111
- G-777-407 Community Landscape Poster - 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, 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. Display on a poster mat board no larger than 22" x 28". 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. Scoresheet SF111
- G-777-408 Renovate The Outdoors Portfolio - 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, full address, county, and years in the project(s) must be on the back of the portfolio. Scoresheet SF110

DEPARTMENT D – ENVIRONMENTAL EDUCATION & EARTH SCIENCES FORESTRY

Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

Division 320 – Forestry

The official reference for all forestry projects is "Tree Identification Manual" (4-H 332 revised) which was recently revised and is available for purchase. Other helpful forestry references include Trees of Nebraska (EC 92-1774-X), Leafing Out (4-H 431), and Plant a Tree (EC 17-11-80).

Display "boards" must be made from wood or wood composite, e.g., plywood, fiberboard or masonite, 1/4" to 1/2" thick and no larger than 24" x 24". Display boards may be coated, e.g. painted or varnished on both sides, to prevent warping.

Display "posters" must be made from a material, e.g. foam board or posterboard that will stand upright without buckling and be no more than 24" x 24".

Display "books" must measure no more than 16" x 16".

At least 5 of the 10 samples in Class 2, 3, 4, and 5 must be from the list of 60 species described in 4-H 332. Samples must be from 10 different tree species. For example, Emerald Queen Maple and Crimson King Maple are both varieties of the same species (Norway Maple) and thus have the same genus and species name, i.e. *Acer platanoides*. All samples must be from trees, NO shrubs. If more than 10 samples are included in the display, only the first 10 samples from the current year will be judged.

Remember that other general labeling standards apply. For example, scientific names are always italicized or underlined. Also, the first letter of a Genus name is always capitalized. The first letter of a species name is always lowercase. When required, always indicate complete scientific names (Genus and species) and common names, (e.g. Norway Maple) even when "variety names" are included. For example, the scientific name of Emerald Queen Maple is *Acer platanoides* and the common name is Norway Maple. "Emerald Queen" may be included as the variety name, but variety names are not required.

How well the exhibitor follows written directions is an important factor in judging.

D-320-001 Design-Your-Own Exhibit - Prepare an educational exhibit about some aspect of trees,

forests or forestry that is of special interest to you. Possible topics include paper recycling, wild fire, forest products, forest wildlife, or forest pests. The only requirement is that the display must be no larger than 24" x 24" x 24". Photographs, drawings, samples, charts, posters, etc. can be used but, include enough information to adequately explain the topic. Your display should be substantially different from other display classes. Be as creative as you like.

D-320-002 Leaf Display - The leaf display must include samples of "complete leaves" from at least 10 different tree species. The display must include at least two samples each of simple leaves and compound leaves, and conifer leaves. Leaves should be pressed, dried and mounted.

Collection: Whenever possible, collect leaves from mature trees. Collect leaves any time after they have reached full size, usually beginning in early summer. Leaf samples should be in good condition, representative of the average leaves on the tree. Keep in mind that shaded leaves are often much larger than normal. Carefully remove leaves from the twig with the entire petiole or rachis intact. After collection, fresh leaf samples can be temporarily stored within the pages of an old magazine, but they should be properly pressed and dried for display. Be sure to record pertinent information during collection.

Mounting: Leaves may be displayed in a notebook or on a display board. Any method may be used to mount leaves, e.g. wire, glue, tape, staples, plastic bags, but be sure all their features can be clearly identified.

Labeling: The label for each sample must include:

- 1) common name
- 2) scientific name
- 3) leaf type
- 4) leaf arrangement (for broadleaf trees)
- 5) leaf composition (for broadleaf trees)
- 6) exhibitor's name
- 7) collection date
- 8) collection location (be specific, state and county at a minimum)

If a twig is included with a sample, indicate "twig included" on the label. For example, the twig may be included with an eastern cedar sample because the leaves are very small and difficult to remove from the twig.

Supplemental information e.g. general uses, common products, fall color, etc. may be included to enhance its educational value.

D-320-003 Twig Display - The twig display must include twig samples from at least 10 different trees species. The display must include at least two samples of opposite and alternate leaf arrangements from broadleaf trees.

Collection: Twig samples should be collected during the dormant season (November - April) when the buds are mature. Twig samples must be at least 6 inches long and exhibit buds. Leaves must be removed and side branches must be trimmed to less than 1 inch in length.

Mounting: Twigs must be mounted on a display board. Any method, e.g. wire, glue, tape, staples, plastic bags, may be used to mount twigs, but be sure all features can be clearly identified. The non-terminal end must be cut at a slant so the pitch can be seen.

Labeling: The label for each sample must include:

- 1) common name
- 2) scientific name
- 3) leaf arrangement (for broadleaf trees)
- 4) exhibitor's name
- 5) collection date
- 6) collection location (be specific, state and county at a minimum)

Supplemental information e.g. general uses, tree characteristics, etc. may be included to enhance its educational value.

D-320-004 Seed Display - The seed display must include seed samples from at least 10 different tree species.

Collection: Tree seeds should be collected at the time of year when they mature, which varies widely depending upon tree species. For example, Silver Maple seeds mature in May while Red Oak acorns do not mature until September. Seed samples should be free of insect or disease symptoms. Remember to display seeds, not fruit. For example, the seed of honey locust is enclosed in a pod. Remove and display the seed, not just the pod. It is acceptable to display the fruit with the seed, but clearly label each.

Mounting: Seeds may be displayed in a variety of ways, e.g. mounted on a display board, displayed in jars in a rack, etc., but they must be securely mounted and easily viewed. Be as creative as you

like.

Labeling: The label for each sample must include:

- 1) common name
- 2) scientific name
- 3) type of fruit, if known (e.g. samara, pod, nut, legume, etc.)
- 4) exhibitor's name
- 5) collection date
- 6) collection location (be specific, state and county at a minimum)

Supplemental information e.g. maturity date, average number of seed in the fruit, etc. may be included to enhance educational value.

D-320-005 Wood Display -The wood display must include wood samples from at least 10 different tree species.

Preparation: Samples may be of any shape e.g. sections from a board, wood cylinders turned on a lathe, horizontal or vertical cross sections of a small log with bark attached, etc., but all samples should be the sample shape, e.g. all wood cylinders or all sections of a board. Each example can be no larger than 4 inches by 4 inches by 4 inches. Cut surfaces should be sanded to show the grain. Treating samples with a clear finish (no stain) is optional.

Mounting: Samples may be displayed in a variety of ways, e.g. mounted on a display board, displayed in a box or rack, etc., but they must be securely mounted and easily viewed. Be as creative as you like.

Labeling: The label for each sample must include:

- 1) common name
- 2) scientific name
- 3) wood type (softwood or hardwood)
- 4) exhibitor's name
- 5) collection date
- 6) collection location (be specific, state and county at a minimum)

Supplemental information, e.g. common products, wood, density, etc., may be included to enhance educational value.

D-320-006 Cross Section - Display a disc cut from a tree species listed in 4-H 332. The sample must be collected within one year of the State Fair judging day. The disc must measure 6 to 12 inches in diameter, and 1 to 3 inches thick. The bark should be firmly attached, which may be difficult if the tree was dead when the disc was cut. Sand at least one side of the disc so the grain can be easily seen. If the disc is treated with a clear finish, both sides must be treated to minimize warping. As the disc dries, some cracking or checking can be expected and is allowed.

Labeling: The following parts must be clearly and accurately labeled on the cross section with pins, paper tags, or some other form of identification.

- a) pith
- b) heartwood
- c) sapwood
- d) one growth ring (beginning and end)
- e) cambium
- f) bark

A separate label attached to the back of the disc must include:

- 1) common name
- 2) scientific name
- 3) tree classification (softwood or hardwood)
- 4) age (of the cross section)
- 5) exhibitor's name
- 6) collection date
- 7) collection location (be specific, state and county at a minimum)

D-320-007 Parts of a Tree - This project is only for ages 8-11. Prepare a poster, no larger than 24 inches by 24 inches that clearly identifies the main external parts of any tree: a. trunk, b. crown, c. roots, d. leaves, e. flowers, f. fruit, g. buds, h. bark. Identifying other internal parts, e.g. phloem, xylem, cambium, annual ring, pitch, etc., is optional. Attach a separate label on the back of the poster that includes the exhibitor's name and age.

D-320-008 Living Tree - Display a living tree seedling grown by the exhibitor from seed in the display container. The seed must be from a species listed in 4-H 332. The seedling must be 60 days to 1 years old (on State Fair judging day). The display container must contain at least 8 inches of soil (potting mix or suitable natural soil), have drainage hole(s), and a drain pan to catch drainage

water.

Labeling: The waterproof label must be attached and include:

- 1) common name
- 2) scientific name
- 3) seed treatments (if any)
- 4) planting date
- 5) emergence date
- 6) exhibitor's name

Supplemental information about the tree, e.g. where the seed was collected, growth measurements, uses for that species, etc. may be included in an attached notebook, poster, etc. to enhance educational value. Supplemental information will be an important factor in judging.

DEPARTMENT D – CONSERVATION & WILDLIFE

Purple \$2.50, Blue \$2.50, Red \$2.00, White \$1.50

Division 340 – Conservation & Wildlife

Dare to do better than you've ever done before!

A. Show What You Did and Learned - All exhibitors are encouraged to show evidence of their personal field experiences, study or observations that relate to their exhibit. This helps judges understand what the 4-H'er did and learned in the process that led to the exhibit.

B. Proper Credit - Show proper credit by listing the sources of plans or other supporting information used in exhibits.

C. Whose Exhibit? - The exhibitor's name, county, age must be on the back or bottom of all displays so that the owner can be identified even if the entry tag becomes separated from the exhibit.

D. Wildlife and Wildlife Laws - "Animal" or "wildlife" in the following instructions includes wild fish, amphibians, reptiles, birds or mammals. Follow wildlife laws; example: wildlife laws do not allow collection of bird nests, eggs or any of their parts.

E. Entries Per Individual - Each individual is limited to one exhibit per exhibit number.

F. Project Materials - Related project booklets include Exploring Your Environment Series, 4-H Shooting Sports, Amphibians, Bird Behavior (EC 5-93-81), Fishing for Adventure Project Manuals, Wildlife Conservation (4-H 125), Outdoor Skills: Learning Science in the Outdoors Series (Science Signature Outcome Program).

G. Board and Poster Exhibits - These are displays that show educational information about a topic of interest. Board exhibits can hold objects such as fishing equipment or casts of animal tracks. Mount all board exhibits on 1/4" plywood, masonite, or similar panel no larger than 24" high x 24" wide. Poster exhibits should be on regular poster sheets, no larger than standard size (22" x 28") but half size, 22" x 14", is recommended.

H. Scoring - Sample score sheets are available on the UNL 4-H web page (<http://4h.unl.edu>).

Division 340 - Wildlife and How They Live (Classes 1-4)

D-340-001 Mammal Display - see below

D-340-002 Bird Display- see below

D-340-003 Fish Display - see below

D-340-004 Reptile or Amphibian Display- see below

Wildlife and How They live Class 1 - 4 are board or poster exhibits. Display may show any aspect of wildlife, wildlife habitat, or related conservation, restoration, or management. Examples: life history or other facts about one type of wildlife; how to manage wildlife on a farm or in town; managing habitat for one kind of wildlife; life requirements for one kind of wildlife during one season or through the year; wildlife study methods; wildlife behavior (examples: when nesting, finding food, moving, etc.); habitats (examples: grasslands, wetlands, river or stream corridors) and what wildlife is found there; habitat needs for a specific kind of wildlife. For more ideas, refer to project booklets.

D-340-005 Wildlife Connections

Board or poster exhibit. The purpose of this display is to show interconnections and related aspects among animals, plants, and other habitat components. All displays should show two or more interactions (connections) that occur between/among animals or between animals and their habitat. Displays might show how animals interact with other animals, with people or with their habitat. Examples: 1) Food chain display. Use pictures, drawings, or other items to illustrate the source of food energy and where it goes – who eats whom or what. Use arrows to show the direction of the energy (food) flow. 2) Show the role of predators, scavengers, insect eaters, or others in nature. 3) Show how wildlife numbers (populations) change through the year or with their habitat. 4) Show