

<p style="text-align: center;">SECTION 020 ORNAMENTAL HORTICULTURE</p>
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***PROJECT RECORD SHEETS
REQUIRED FOR YOUTH BUILDING ENTRIES.**

A General Project Record or Cloverbud Project Record and an Exhibit Tag **must** accompany each exhibit entered in the Youth Building. A copy of the General Project Record is enclosed in the fair book. Additional copies of the Project Record Sheet can be found in past issues of the 4-H Leaders' Digest, our web site at www.ccedelaware.org or by visiting or calling the 4-H office. Fair book classes that required a 3" x 5" index card attached to an entry in the past is no longer required. The Project Record Sheet will take the index card's place.

Exhibitors who wish to exhibit at State Fair should request the State Fair book from the 4-H Office early.

All ornamental horticulture exhibits will be judged on Monday as they are brought to the fair BEFORE they are displayed (prior to 7 p.m.). Each exhibitor is responsible for presenting his or her exhibit to the judge.

CUT FLOWERS

Up to 8 different entries may be exhibited in this class.

Consist of 3 stems with the same color blooms except as noted:

- Gladiolus - 1 spike with at least 12 inch stem and other large spikes.
 - Roses - 1 stem of the type entered.
 - Dahlias - 3 blooms of one color, or 1 bloom if over 6 inches.
- Any bloom 6 inches or larger – show 1 specimen, such as a 6 inch plus sunflower or dinner plate Dahlia.

For more information on culture, consult: Gardens of Fabulous Flowers (1992), 141 L-9, available at http://www.cerp.cornell.edu/4h/search_results.asp?or=b&a=2&a=93&pg=2.

Stems should be eight inches long, except where type of flower makes this impossible.

Flowers that do not last as cut flowers (daylilies, hollyhocks, impatiens, portulaca, etc.) may not be entered.

Blooms of weeds, wildflowers and shrubs will not be evaluated.

FLOWER JUDGING GUIDELINES

- | | | |
|-------------------------------|----------------------------------|-------------|
| A. Faults in entry: | B. Uniformity is lacking: | |
| - Too many specimens | - age | - shape |
| - Too few specimens | - color | - size |
| - Variety name incorrect | | |
| C. Flowers injured by: | D. Other faults: | |
| - Disease. | - imperfect | - wilted |
| - Insects. | - short stemmed | - small |
| - Handling. | - weak stemmed | - too young |
| - Dirt. - poor or no foliage | - old | |

Class No.

- 2451 Aster (annual)
- 2452 Bachelor Button
- 2453 Calendula
- 2454 Carnation
- 2455 Chrysanthemum (any form)
- 2456 Cleome
- 2457 Cosmos
- 2458 Dahlia
- 2459 Daisies
- 2460 Flowering Tobacco
- 2461 Gladiolus
- 2462 Larkspur
- 2463 Marigold
- 2464 Delphinium

- 2465 Asiatic Lily (1 stem)
- 2466 Nasturtium
- 2467 Ornamental Grass (foliage & fully developed seed head)
- 2468 Pansies
- 2469 Petunia
- 2470 Phlox (annual)
- 2471 Rose
- 2472 Rudbeckia (Coneflowers, Black-Eyed Susan)
- 2473 Snapdragon
- 2474 Statice (fresh, not dried)
- 2475 Stock
- 2476 Strawflower (fresh, not dried)
- 2477 Sunflower, 1 stalk cut 12" max, large flowered, over 6" diameter, seedless center
- 2478 Sunflower, 1 stalk cut 8" max, flower head 4-6" diameter, seedless center
- 2479 Sunflowers
- 2480 Sweet Peas
- 2481 Viola
- 2482 Zinnia
- 2483 Zinnia, large, over 4"
- 2484 Miscellaneous, any other cut flower not listed, annual or perennial, display the same number of specimens as similar crop listed.
- 2485 A collection of 6 garden cut flowers, not used in other cut flower entries. 1 specimen of each variety. Flowers named and variety listed. No wildflowers, weeds, or shrubs.

INDOOR GARDENING

- Please list plants and plant materials used.
- All items should follow recommended guides of balance, design, proportion and harmony.
- No artificial or plastic plant materials allowed.
- Ribbon and bows as part of the design are allowed.
- Entries must be grown in display container prior to June 1 of the current year
- 2486 Dish Garden
- 2487 Terrarium or Closed Eco System – no endangered species allowed.

INDOOR GARDENING: HOUSE PLANTS

- Houseplants must be a single stem or crown in proportional container.
- No artificial or plastic plant materials allowed.
- Please list plant name.
- Entries must be grown in display container prior to June 1 of the current year.
- 2488 Potted House Plant – flowering
- 2489 Potted House Plant – Foliage
- 2490 Potted House Plant – Vine
- 2491 Potted House Plant – hanging container. More than 1 plant accepted.
- 2492 Miniature House Plant – 1 1/4" -3" pot maximum.
(Example, miniature African Violet)

CONTAINER GARDENS

- No artificial or plastic plant materials allowed.
- Appropriate container and plant combinations.
- Please list plants included in container.
- Entries must be grown in display container prior to June 1 of the current year.
- 2493 Container Gardens
- 2494 Perennial Annual, Vegetable, Ornamentals

FRUITS AND NUTS

All fruits and nuts must be cared for by exhibitors.

Nuts grown in the previous year may be entered.

For more information on culture, consult: *Strawberry Fields Forever* – a day neutral strawberry 4-H project available at http://www.cerp.cornell.edu/4h/search_results.asp?or=b&al=93&pg=9.

Other publications at this website may be useful.

- 2495 Apples, 3, ripe, any single variety
- 2496 -Apricots, 3, ripe
- 2497 Blueberries, 1 pint
- 2498 Cherries, 1 pint basket, with stems, any single variety
- 2499 -Elderberries, attached to cluster, 1 quart
- 2500 Grapes, 1 bunch
- 2501 Nectarines, 3, ripe
- 2502 Peaches, 3, ripe
- 2503 Pears, 3, ripe, with stems, any single variety
- 2504 Raspberries, ½ pint, any single variety
- 2505 Strawberries, 1 pint, caps on
- 2506 Other, minor fruits such as quince or persimmon, 3, ripe
- 2507 Miscellaneous – any fruit not listed, display same number of specimens as similar crop listed.
- 2508 Nuts, all ripe, dry, unshelled, 1 pint, any single variety.
- 2509 A collection of 3 types, such as 3 different varieties of apples.

FLORAL DESIGN

-List plants used in arrangement.

- 2510 Dry or fresh flower corsage in transparent bag.
- 2511 Table arrangement of live or dry plant material – not over 12” in diameter and under 8” in height.
- 2512 Holiday decoration of live, dried or natural plant materials – not more than 18” in diameter or 24” long.
- 2513 Plaque of dried or pressed plant material; includes other craft projects made with real plant material (e.g. floral pictures).
- 2514 Large arrangements of live or dried plant material – for arrangements over 12” in diameter and over 8” in height.

MINIATURE ARRANGEMENT

-List plants used in arrangement.

- 2515 Arrangement of fresh or dried flowers. Less than 6” in height and diameter – including container.

PLANT COLLECTIONS

Developing a plant collection will help youth to learn to recognize and identify different plant species.

PRESERVED

Plants must be pressed, mounted and labeled. To press plant material, it is best to use the method described in *Pressed Flower Pictures* (1982), 141-IB-34, find at <http://www.dspace.library.cornell.edu/handle/1913/3267>, or as described by a person who has experience collecting plant material.

-a clear, protective overlay is helpful for many, but not all exhibits.

-Weeds and other specimens mounted green (not pressed or dry) will not be evaluated.

-Collection of plants may be on one side of ONE PIECE of poster board or like material, 22" x 28" in size, or in notebook binders with single specimens on 8 ½" x 11".

-Scrapbooks of accumulating years should have dividers between years. Current year's exhibit should be clearly marked. Current year exhibit will be judged.

-List sources used to identify plants and plant materials.

-Plants must be identified by common and scientific name.

- 2516 Leaf Twig (and fruit, flowers and seed, if possible) of 10 or more ornamental trees.
- 2517 Leaf Twig (and fruit, flower and seed, if possible) of 10 or more ornamental shrubs.
- 2518 Leaf, Twig, and Illustration of fruit or nut, of 10 or more fruit or nut plants.
- 2519 Ten Weeds common to lawns and flower beds.
- 2520 Ten Annual Flowers
- 2521 Ten Perennial Flowers
- 2522 Ten Wild Flowers
- 2523 Ten Seeds (any single plant type, e.g. 10 ornamentals, 10 fruits, etc.)
 - Clean and dried (not green)
 - Seeds must be harvested by exhibitor.
 - A picture of plant must accompany seeds.
 - List growing conditions required.

MISCELLANEOUS COLLECTION

Horticulture Scrapbook (collection of plant pictures)

2524 Beginner

2525 Intermediate

2526 Advanced

-Entries will be judged according to similar project criteria.

-May be cut from magazines or garden center catalogs, illustrated by your own drawings, photographed or photocopies.

-Write in the front or back of the catalog where your images came from if you did not make them yourself (for example: Pictures are from W. Atlee Burpee 1998 seed catalog).

-This scrapbook makes an excellent study guide for the Horticulture Contest.

-Each plant should be represented on its own 8 ½ "x11" page.

-Catalog will be worth more if the picture (or perhaps more than one picture) shows different stages of growth (fruit and leaf, vegetable and flower, flower and leaf).

-Fasten pictures with clear tape, paper glue or rubber cement.

-Pages must be bound in notebook binder.

-Label with common name and brief description.

-Consult NY Horticulture Contest Guidelines for the plants required in each class.

-Beginners must include the 15 plants specified from each group – flowers and indoor plants; ornamentals, fruits and nuts, vegetable.

-Intermediates must include the 30 plants from each group.

-Advanced participants must include all 45 plants from each group.

-NY Horticulture Contest Guidelines are at

<http://www.hort.cornell.edu/4hplants>.

LANDSCAPE PICTURES AND PLANS

Youth can display what they have learned about the elements of design and how plants can be grouped effectively for ornamental or edible purposes. It also offers an opportunity to display their garden record keeping.

-All collections, pictures and plans will be enhanced by a clear, protective overlay.

-Markers, colored pencils or paints may be used to embellish the landscape plan.

2527 Home Grounds Landscape Photographic Album

-Must have at least 6 "before" and 6 "after" pictures of current year's work.

2528 Plan or Map of Home Grounds

-Drawn to scale.

-Show things as they were at beginning of project.

-A second map, with suitable and necessary notes, showing changes and improvements made.

-In different colors, show changes and improvements yet to be made.

-Indicate direction north on plan.

-See "Young People's Guide to Landscaping" at

http://www.cerp.cornell.edu/4h/search_results.asp?or=b&al=2&a=93&pg=4.

2529 Plan or Map of Apartment Dwelling

-Drawn to scale, showing grounds as they are currently.

-A second map, showing proposed changes that would improve existing grounds.

-Where ground space is unavailable, a terrace or porch garden of containerized plants can be depicted.

-Indicate direction north on plan.

2530 Plan of Annual and/or Perennial Flower Garden

-Show varieties, name, placement, height and color.

-Use scale no smaller than 1 inch equals 4 feet.

-Indicate direction north on plan.

2531 Plan of Home Orchard (tree fruit and/or berry crops)

-Show varieties, name, placement, height and time of fruiting.

-Use scale no smaller than 1 inch equals 4 feet.

-Exhibit should indicate current year's work. Current year's work will be judged.

-Indicate direction north on plan.

2532 Plan of Home Vegetable Garden

-Show varieties, name, placement, height and approximate harvest times.

-Succession of plants may be indicated by a tracing paper overlay.

-Use scale no smaller than 1 inch equals 4 feet.

-Indicate direction north.

2533 Plan of Community Service Beautification Project

-Helpful information may be found at

http://www.cerp.cornell.edu/4h?search_results.asp?or=b&al=2&a=93&pg=4.

- 2534 Garden Record Book
- List plants chosen and varieties.
 - List reason for selection.
 - Garden design sketch, including lay-out, dimensions, and spacing.
 - Indicate direction north.
 - Photos showing before and after are helpful.

EXPERIMENTS

The intent of this division is to generate an interest among young people in a science-based approach to horticulture.

- 2535 Propagation
- 2536 Breeding
- 2537 Soil Science
- 2538 Cultural Practices
- 2539 Miscellaneous (Entries will be judged according to similar project criteria.)

Guidelines and suggestions for the exhibitor working with plants.

Background – Describe why you did this experiment and why it is important to you and other people?

The Question (or hypothesis) – What specific question does your experiment try to answer? For example: “Does watering geraniums with coffee increase their growth?”

Methods – Outline you did the experiment. Be sure to include:

- a. Treatments – Describe specifically what you are comparing as treatments. Remember that you should have a check treatment (what is usually done) and the ‘test’ treatment. From the above question: Check = watering with water, and treatment = watering with coffee.
- b. Measurements – Describe what you are measuring (weight, height, etc.) and why. Include observations of the plants over the course of the experiment.

Results

- a. What did your measurements tell you about the treatment compared to the check? Was there a difference and if so, why do you think so? Use tables, graphs or pictures to share what you learned.
- b. What other things did you notice in your observations?

Conclusions

What did you learn? What is important about your results to other people? What would you suggest to someone else, based on what you learned?

The Display should be interesting, attractive and neat, so that people will want to stop and learn about what you did. It should:

- Include actual examples of treated and untreated plants, if possible, otherwise use drawings or photographs.
- On sheets of paper, describe your study using the above 5 sections.
- Use big print so that it is easy to read from 3 feet away.
- Glue these sheets, along with any photos or graphs to heavy poster paper (14” x 22” minimum) for display.
- “Strawberry Yields Forever” at http://www.cerp.cornell.edu/4h/search_results.asp?or=b&al=2&a=93&pg=9.

FIELD CROPS

- Sample of hay must be well cured, not moist.
- Grasses, legumes and silage crops will be judged on the basis of their values as forage or silage.
- Exhibits should be displayed in either tightly packed, clean baskets or slice of bale with approximately dimension 8 x 10 x 14, or as described.

- 2540 Oats – 1 peck
- 2541 Wheat – 1 peck
- 2542 Any Other Small Grains
- 2543 Field Corn – 3 ears
- 2544 Haylage – quart jar with mixture names on entry card
- 2545 Corn Silage – quart jar with mixture names on entry card
- 2546 Alfalfa
- 2547 Clover
- 2548 Birdsfoot Trefoil
- 2549 Timothy
- 2550 Mixed Hay – state mixture on entry card
- 2551 Feeds Suitable for a 4-H Animal Project

-Project must be specified, feed sampler attractively displayed on a board. Nutritional value and use of each sample must be described.

-Miscellaneous entries will be judged according to similar project criteria.

- 2552 Any other approved 4-H project or article (in section 021) made as a part of a related 4-H project that does not fit any other class.