

Revised 6/2012**Purpose and Standards**

The purpose of the Vegetable Crop Judging Contest is to create interest and promote understanding in the vegetable crop industry by providing opportunities for recognition through the demonstration of skills and proficiencies. It is the intention of the contest to provide a venue for students to explore career opportunities, skills and proficiencies in the vegetable crop industry. The emphasis of this contest is to promote critical thinking, evaluation, oral and identification skills.

Foundation Standards: Academics Science, 1.d, 1.l. Communications Written and Oral Conventions Listening and Speaking 1.1, 2.2, 1.8. Ethics and Legal Responsibilities, 8.4. Leadership and Teamwork 9.1, 9.2, 9.3, 9.6.

Plant and Soil Science Pathway Standards: G1.1-1.6, G5.1, G1.2, G7.1, G.10.1-10.3.

Contestants

Teams shall consist of three or four members. The scores of the three highest team members shall be used for the team score. All team members are eligible for individual awards

Classes

Class	Individual	Team
Judging Class 1	50	150
Judging Class 2	50	150
Judging Class 3	50	150
Judging Class 4	50	150
Reasons Class 1	50	150
Reasons Class 2	50	150
Reasons Class 3	50	150
Reasons Class 4	50	150
Identification	400	1200
TOTAL	800	2400

Tiebreaker

1. The team or individual scoring the highest identification(s) will be the winner.
2. If a tie still exists, the total score of the individual or team will be used to determine the high individual or team.

Sub-contest Awards

Sub-contest awards will be given for high teams and individuals in the following areas: Identification, Judging, and Reasons. (Reasons are **not included** in judging sub-contest score.)

Rules

- I. The Vegetable Crop Judging Contest will consist of the following:
 - A. Judging vegetables and giving oral reasons.
 - B. Identification of edible portions of vegetables, vegetable seeds, common weeds, common insects and pests and vegetable plants intended for transplanting.
 - C. Identification of market defects, evidence of diseases and insect or pest damage.
 - D. There are 800 points possible for each contestant.
- II. General Rules
 - A. The individual(s) responsible for the contest has the authority to determine whether an answer given by a student is correct or not, using the current CATA Curricular Code.
 - B. Contestants and coaches are invited to ask questions of judges and inspect the judging samples after the close of the contest.
 - C. The judges will explain the placings at a set time after the close of the contest.
- III. Judging
 - A. Four classes of vegetables will be judged; each class will consist of four plates with each plate containing vegetables according to the following:

2 Specimens

Celery	Cauliflower
Cabbage	Lettuce
Broccoli (2 bunches)	

4 Specimens

Artichokes	Sweet Potatoes or Yams
Dry Onions	Irish Potatoes
Tomatoes	Peppers

6 Specimens

Squash
Table Beets

10 Specimens

Carrot

Classes will be made from the following varieties, types or kinds:

<u>Kind</u>	<u>Varieties or Types</u>
Artichokes	Globe Type
Broccoli	No Variety Specified
Cabbage	No Variety Specified
Carrot	Imperator Type
Cauliflower	No Variety Specified
Celery	Green Type

Dry Onions	Flat or Globe Type
Irish Potatoes	Russet, White
Lettuce	Iceberg type, Butterhead, Redleaf, Greenleaf, and Romaine
Squash	Zucchini, White Scallop
Sweet Potatoes	No Variety Specified
Table Beets	No Variety Specified
Tomatoes	Large Slicing Market, Roma

B. Instructions To Contestants -- Rules for Judging

1. The name of the vegetable will be specified by the host institution.
2. The vegetables will be judged on the basis of quality which will bring the best financial return on the retail market.
3. Placings will be submitted on cards supplied to the contestant. Comparative reasons will be given on all classes without notes. (Notes may be used in the preparation of reasons).
4. No contestant will be allowed to touch any vegetable on the judging plates. The judges will place the vegetables in a position so that all qualities and conditions can be seen without turning them over.
5. Twelve (12) minutes will be allowed to judge each of the four classes; two (2) minutes will be allowed for each set of reasons; reasons will be given on each of the four classes.
6. Fifty (50) points will be allowed on each class correctly placed; up to fifty (50) additional points will be allowed for each set of reasons.
7. The total points possible for each contestant in the judging portion of the contest is 400.

IV. IDENTIFICATION (Five points each)

- A. Eighty (80) specimens will be selected from the identification list. Specimens will be either vegetable (edible portion), vegetable seeds, weeds common to vegetable crop fields, insects and pests common to vegetable crops, market defects, evidences of diseases and insect or pest damage and vegetable plants intended for transplanting.
- B. Instructions to Contestants
 1. Contestants are not allowed to carry into the contest notes or any materials which may aid in taking the contest. No identification answer sheets or material indicating answers may leave the identification room. Contestants found in violation of this rule will be immediately disqualified.
 2. Contestants are not to take portions of the identification samples nor are they allowed to touch the samples in any way. Contestants found in violation of this rule will be immediately disqualified.
 3. Common names as given on the attached list will be used in identifying specimens.
 4. Five (5) points will be allowed for each specimen properly identified with a possible total of 400 points for each contestant.

5. Only the entire name of the specimen, as listed in the Curricular Code, will be scored as correct. Ditto marks shall not be used.

Examples:

1. Yellow wax pepper	- correct
Yellow pepper	- minus 5 points
Wax pepper	- minus 5 points
2. Snap bean seed	- correct
Snap bean	- minus 5 points (when it is the seed being identified)
Snap seed	- minus 5 points

6. One point will be deducted for each correct answer which is misspelled. Hyphens when included in an answer will not be counted wrong unless a hyphen is a specific part of the spelling of a crop name or is required, as in the disease, pest and marketing defect section of the contest (see below). An answer that is one word and should be two words (or vice versa) is considered a misspelling. The ñ in Jalapeño pepper must be present.

Examples:

1. Greenleaf lettuce	- correct
Green leaf lettuce	- minus 1 point
2. Water cress	- correct
Watercress	- minus 1 point
3. Jalapeño pepper	- correct
Jalapeno pepper	- minus 1 point
4. Edible-pod pea	- correct
Edible pod pea	- minus 1 point

7. Misuse of capitalization or plurals will not be counted as a misspelled word.
8. In the Evidence of Disease, Insect or Pest Damage, and Market Defect sections: the vegetable and the diseases, damage or defect must be identified. Use names of vegetables as given in the Identification of Edible Portion of Vegetables section. In identifying diseases, damage or defect, list as per the following examples:

- i. Tipburn – Romaine lettuce
- ii. Overmaturity – Zucchini squash
- iii. Edible Portion Sprouting – Russet potato

Examples:

1. Bolting – Celery	- correct
Celery – Bolting	- minus 5 points (defect must be listed
Bolting, Celery	- first)
Bolting	- minus 1 point (no hyphen) minus 5 points (identification of edible portion not listed)

- | | |
|-------------------|---------------------------------------|
| 2. Mildew – Green | - correct |
| Cabbage | - minus 5 points (cabbage is not name |
| Mildew – Cabbage | give in the Edible Portion of |
| | Vegetables Section |

9. Fifty (50) minutes will be allowed for the identification portion of the contest.
 10. Either the common name or the synonym(s) will be accepted.

C. Instructions to Judges:

1. Specimens for identification must be of sufficient size and maturity to show identifiable characteristics.
2. Edible portions must be present with all specimens in the Disease, Insect or Pest Damage, and Market Defect section.
3. Judges will indicate the specimens which should be identified for diseases, insect or pest damage, and market defect. The judge will indicate specifically which one of the above should be identified by means of an arrow, yarn and pin, or some easily detected method.
4. The judges will identify the specimens at a set time after the close of the contest.
5. Growers' Weed Identification Handbook, UC Cooperative Extension will be used to determine the correct spelling of all weed identification.

V. Suggested References:

- Growers' Weed Identification Handbook - UC Cooperative Extension
- Pierce, L. 1987. Vegetables: Characteristics, production and marketing. John Wiley and Sons, New York
- Whitson, T., L. Burrill, S. Dewey, D. Cudney, B. Nelson, R. Lee and R. Parker. 1991 Weeds of the west. Western Society of Weed Science

Identification of Edible Portion of Vegetables

Buckweat Family (Polygonaceae)

Rhubarb

Cotton Family (Malvaceae)

Okra

Ginger Family (Zingerberaceae)

Ginger

Goosefoot Family (Chenopodiaceae)

Spinach

Swiss chard

Table beet

Gourd Family (Cucurbitaceae)

Acorn squash
Banana squash
Butternut squash
Cantaloupe
Chayote
Cucumber
Delicate squash
Honeydew
Pumpkin
Spaghetti squash
Watermelon
White scallop squash
Yellow crookneck squash
Yellow straightneck squash
Zucchini squash

Grass Family (Gramineae)

Sweet Corn

Lily Family (Liliaceae)

Asparagus

Morning Glory Family (Convolvulaceae)

Moist flesh sweet potato (syn. Yam)
Dry flesh sweet potato

Mustard Family (Brassicaceae)

Arugula
Bok Choy (syn. Pak Choy)
Broccoli
Brussels sprout
Cauliflower
Chinese cabbage (syn. Nappa cabbage)
Collard greens
Curly leaved kale
Daikon
Green cabbage
Horseradish
Kohlrabi
Leaf mustard
Plain leaved kale
Radish
Red cabbage
Rutabaga

Turnip
Water cress

Onion Family (Alliaceae)

Chive
Garlic
Green bunching onion (syn. Scallion)
Leek
Red onion
White onion
Yellow onion

Parsley Family (Apiaceae)

Carrot
Celeriac
Celery
Cilantro (syn. Coriander; Chinese parsley)
Parsley
Parsnip

Pea Family (Fabaceae)

Jicama
Lima bean
Snap bean
Snow pea (Syn: Edible-podded pea)
Soybean
Sugar snap pea

Potato Family (Solanaceae)

Anaheim pepper
Bell pepper
Blue potato (blue skin; blue/white flesh)
Cayenne pepper
Cherry tomato
Eggplant
Fingerling potato
Habanero pepper
Jalapeño pepper
Poblano pepper
Red potato
Roma tomato
Russet potato
Tomato
Tomatillo
White potato
Yellow wax pepper

Sunflower Family (Asteraceae)

Artichoke
 Butterhead lettuce
 Endive
 Belgian endive
 Escarole
 Greenleaf lettuce
 Iceberg lettuce
 Radicchio
 Redleaf lettuce
 Romaine lettuce

Miscellaneous Produce Identification

All items must be placed in a fresh state, not dried or in spice form.

Basil	Portabella mushroom
Button mushroom	Rosemary
Dill	Sage
Fennel	Shiitake mushroom
Mint	Tarragon
Oregano	Thyme

Vegetable Seed Identification

Artichoke seed	Parsley seed
Asparagus seed	Parsnip seed
Banana squash seed	Pea seed
Carrot seed	Pepper seed
Celery seed	Radish seed
Coated seed	Snap bean seed
Cole crop seed	Spinach seed
Cucumber seed	Table beet seed
Lettuce seed	Tomato seed
Onion seed	Zucchini seed

Vegetable Crop Weeds Identification

<u>Common Name</u>	<u>Botanical Name</u>
Annual bluegrass	<i>Poa annua</i>
Annual sowthistle	<i>Sonchus oleracus</i>
Barnyardgrass	<i>Echinochloa crusgalli</i>
Bermudagrass	<i>Cynodon dactylon</i>
Black mustard	<i>Brassica nigra</i>
Black nightshade	<i>Solanum nigrum</i>
Bristly oxtongue	<i>Picris echioides</i>

Burning nettle	<i>Urtica urens</i>
California burclover	<i>Medicago polymorpha</i>
Chickweed	<i>Stellaria media</i>
Cocklebur	<i>Xanthium strumarium var. canadense</i>
Common groundsel	<i>Senecio vulgaris</i>
Common knotweed	<i>Polygonum aviculare</i>
Common purslane	<i>Portulaca oleracea</i>
Common sunflower	<i>Helianthus annuus</i>
Curly dock	<i>Rumex crispus</i>
Fiddleneck	<i>Amsinckia spp.</i>
Field bindweed	<i>Convolvulus arvensis</i>
Filaree	<i>Erodium sp.</i>
Foxtail barley	<i>Hordeum jubatum</i>
Johnsongrass	<i>Sorghum halapense</i>
Large crabgrass	<i>Digitaria sanguinalis</i>
London rocket	<i>Sisymbrium irio</i>
Lambsquarter	<i>Chenopodium album</i>
Malva	<i>Malva spp.</i>
Miner's lettuce	<i>Claytonia perfoliata</i>
Nutgrass	<i>Cyperus spp.</i>
Pigweed	<i>Amaranthus retroflexus</i>
Pineappleweed	<i>Chamomilla suaveolens</i>
Prickly lettuce	<i>Lactuca serriola</i>
Puncture vine	<i>Tribulus terrestris</i>
Russian thistle	<i>Salsola australis</i>
Scarlet pimpernel	<i>Anagallis arvensis</i>
Shepherds purse	<i>Capsella bursa-pastoris</i>
Wild radish	<i>Raphanus sativus</i>
Yellow mustard	<i>Brassica campestris</i>

Evidence of Disease, Insect Damage and Market Defects (See I.D. Section)

Aphid

Specify Vegetable by name given in Identification Section Edible Portion of Vegetables section

Bolting

Cabbage

Carrot

Cauliflower

Celery

Lettuce

Onion

Edible Portion Sprouting

Carrot
Dry flesh sweet potato
Moist flesh sweet potato (syn. Yam)
Onion
Russet potato

Mildew

Specify Vegetable by name given in the Identification of Edible Portion of Vegetable section.

Mosaic

Specify Vegetable by name given in the Identification of Edible Portion of Vegetables section.

Overmaturity

Specify Vegetable name given in the Identification of Edible Portion of Vegetables section.

Rhizoctonia

Potato

Scab

Carrot
Russet potato

Sclerotinia Drop

Lettuce

Smut

Sweet corn
Onion

Soft Rot

Celery
Carrot
Dry flesh sweet potato
Moist flesh sweet potato (syn. Yam)
Russet potato
Tomato

Tipburn

Lettuce

Veining

Dry flesh sweet potato
Moist flesh sweet potato (syn. Yam)

Plants Intended for Transplanting

Artichoke transplant	Iceberg lettuce transplant
Butterhead Lettuce transplant	Kale transplant
Broccoli transplant	Onion transplant
Cauliflower transplant	Parsley transplant
Celery transplant	Pepper transplant
Cilantro transplant	Redleaf lettuce transplant
Cucumber transplant	Romaine lettuce transplant
Eggplant transplant	Squash transplant
Greenleaf lettuce transplant	Tomato transplant

Vegetable Crop Insect and Pest Identification

<u>Common Name</u>	<u>Scientific Name</u>
Aphid	<i>Aphididae (family)</i>
Cabbage looper	<i>Trichoplusia ni</i>
Corn earworm	<i>Helicoverpa zea</i>
Cutworm	<i>None specific</i>
Darkling beetle	<i>Blapstinus spp.</i>
Earwig	<i>None specific</i>
Grasshopper	<i>Acrididae (family)</i>
Harlequin bug	<i>Murgantia histrionica</i>
Leafhopper	<i>Cicadellidae (family)</i>
Leafminer	<i>Liriomyza spp.</i>
Lygus bug	<i>Lygus spp.</i>
Nematode	<i>None specific</i>
Slug	<i>None specific</i>
Snail	<i>None specific</i>
Soil grub	<i>Melolonthinae phyllophaga</i>
Squash bug	<i>Anasa tristis</i>
Thrip	<i>None specific</i>
Western spotted cucumber beetle	<i>Diabrotica undecimpunctata</i>
Western striped cucumber beetle	<i>Acalymma trivittata</i>
Western yellowstriped armyworm	<i>Spodoptera praefica</i>
Whitefly	<i>Aleyrodidae (family)</i>
Wireworm	<i>Elateridae (family)</i>

A Suggested Score Card as a Basis for Instruction in Judging Vegetable Exhibits

	Possible Points
Condition - (clean, no blemishes, properly trimmed)	30
Uniformity - (same size, shape, color)	25
Trueness to type - (typical of variety)	15
Quality - (edible maturity, crispness, firmness)	20
Size - (conformity with market demands)	10
TOTAL	100