|  |  | $\begin{array}{r} 7.002 \\ 9 / 23 \end{array}$ |
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## Fruits and Vegetables

## Purpose

The New Jersey FFA Fruit and Vegetable Career Development Event allows students to identify various fruits and vegetables that are grown in New Jersey and throughout the United States. Students also have the opportunity to select produce by identifying the variety and judging classes of apples and vegetables for uniformity, variety, color, freedom from blemish, trueness to variety, etc. FFA activities are an integral part of the instructional program in Agriculture, Food, and Natural Resources Education.

## Objectives

Students will be able to

- Identify various fruits and vegetables.
- Select quality fruits and vegetables based on uniformity, variety, color, freedom from blemish and trueness to variety.
- The written exam will encourage students to be knowledgeable consumers and to understand the significance of this industry in New Jersey.


## Event Rules

The complete rules, policies and procedures relevant to all New Jersey FFA Career and Leadership Development Events may be found in the CDE \& LDE Event Participation Policy:
https://nj.gov/agriculture/ag_ed/ffa/activity/CDE_LDE_Policy.pdf

- A team will consist of four members. The three highest individual scores will be totaled for the team score. Teams that have fewer than three members are not eligible for team awards, but students may receive individual awards.
- Under no circumstances will any participant be allowed to touch or handle any of the produce during the event.
- Each participant must have a clipboard, at least two No. 2 pencils, and a calculator.
- Participants are NOT allowed to use (or have visible) electronic devices during the event, unless for medical reasons or a portion of the event requires usage. This includes cell phones, tablets, etc. Participants will be allowed to use calculators, if specified for that event; however, cell phone calculators and graphing calculators are not permitted! Failure to adhere to these rules will result in disqualification.
- All individuals participating will judge in a cooperative manner following the rules set forth by the event coordinator.
- No school/chapter will use Rutgers University or Delaware Valley University facilities or locations for the training of teams. Contact with University faculty and staff is permissible. Penalty will be disqualification.
- This event will be scored using "Scan-tron" sheets. It is important for students to listen to directions and fill out the sheets correctly in order to receive credit. Sample scan-tron sheets are available for practice on the State Activity Guide. This event will use the Horticulture (Multipurpose) Scan-tron sheet.
- There will be no separate alternate teams.
- Official Dress is required during the event.
- No individuals from the same school/chapter may talk, confer or judge together. Penalty will be loss of score for that section of the event or disqualification for the event. Event coordinator has the authority to make disqualifications.
- A student may not compete in more than one event during the New Jersey FFA Fall Career Development Events.
- The State level competition fee of $\$ 11$ per contestant will be paid by the competing school. If a chapter is at least blue affiliated, registration to state FFA career development events is waived.


## Event Format

## EQUIPMENT

Materials to be provided by the student:

- Two no. 2 pencils
- Clipboard
- Calculator

Materials provided by the CDE committee:

- All paper and other supplies
- Identification List

Participants are not to bring:

- Glass of any kind to the event
- Cell phones or other electronic devices


## EVENT SNAPSHOT

Below is a brief overview of the Fruits and Vegetables CDE:
This event consists of three (3) phases:

- Phase I - Identification (30 seconds at each specimen; 40 fresh specimens)
- Phase II - Judging (5 minutes, one minute per class)
- Phase III- Written Exam (30 minutes, 25 questions)

A chapter may have a team of three (3) or four (4). The top three (3) scores are used in determining the team's rank.

Scantron will be used to score this event. At the end of this document is a sample of the sheet used, highlighting where to enter answers. You can get practice sheets here:
https://nj.gov/agriculture/ag_ed/ffa/activity/Scantron.pdf

## INDIVIDUAL ACTIVITIES

Identification - 400 points

- $\quad$ Students will be given 30 seconds at each specimen ( 40 fresh specimens).
- Ten minutes will be provided at the end for students to finish filling out the scan-tron


## Judging - 300 points

- Students will first identify the specimen in the class.
- Next they will judge the plates of specimens in the class first (best), second (middle), third (least best).
- Students will be given 1 minute at each class (5 classes).
- Students will be provided 5 minutes to finish filling out the scan-tron.


## Written Exam - 100 points

- The written exam will focus on consumer awareness - things like basic food safety, seasonal availability of NJ fruits \& vegetables, calculating cost of produce, basic nutrition, and statistics of NJ production rankings. The intention of the written exam is to encourage students to be knowledgeable consumers and to understand the significance of this industry in New Jersey.

| Activities | Points | Individual <br> Points | Team <br> Points |
| :--- | :---: | :---: | :---: |
| Written exam | 100 | 100 | 300 |
| Identification* | 400 | 400 | 1,200 |
| Judging* - (50 points will be received for <br> placing class. An additional ten (10) <br> points will be given for each variety <br> named correctly.) | Judging-250 <br> ID -50 | 300 | 900 |
| TOTAL | 800 | 2,400 |  |

*denotes a hands-on practicum area

## TIEBREAKERS

If ties occur, the following events will be used to determine award recipients:

## TEAM

1. Written Exam
2. Judging
3. Identification

## INDIVIDUAL

1. Written Exam
2. Judging
3. Identification

## Awards

Awards will be presented to individuals and the first team based on their rankings at the CDE awards ceremony at the New Jersey State FFA Convention. Awards are sponsored by the New Jersey FFA Foundation, Inc., New Jersey FFA Association, and/or the National FFA Organization.

## Individual

- Overall Medals
- Medals - Top three individuals
- H.O. Sampson Certificates (hands-on practicum areas ONLY)
- Certificate - Top five individuals

Team

- Banner Sponsored by the New Jersey FFA Association - $7^{\text {st }}$ place

This is a state-level event; therefore, the first-place team will not advance to further competition.

## Resources

This list of resources is not intended to be all-inclusive.

- Availability of Fruits \& Vegetables in New Jersey: https://findjerseyfresh.com/JerseyFresh/availability
- Food Safety - https://nj.gov/agriculture/farmtoschool/farmers/food-safety/
- Nutrition Information - https://www.myplate.gov/eat-healthy/what-is-myplate
- New Jersey Farm Facts - https://findjerseyfresh.com/JerseyFresh/statistics
- MyCAERT Question Bank - www.mycaert.com
- Introduction to Horticulture. 3rd Edition, 2000. Interstate Publishers, Inc. Danville, IL.
- Introductory Horticulture. 5th Edition, 1996. Delmar Publishers, Inc. Albany, NY.
- Ornamental Horticulture: Science, Operations and Management. 2nd Edition, 1994. Delmar Publishers Inc., Albany, NY.


## Request for Reasonable Accommodations

The New Jersey FFA Association is committed to providing equal access to our events and activities for all people. Use this form to request a reasonable accommodation or assistance at least 3 weeks before any state-level events: https://form.jotform.com/NJFFA/accommodations-request. A new form will need to be submitted for each event in which a reasonable accommodation is being requested. This information will be kept confidential and will be used only to process the request. Our staff will review the request upon receipt and contact the requestor with additional information. The association cannot guarantee accommodations or assistance if a form is received less than 3 weeks before an event. Accommodations being requested that require the assistance of another person (nurse, interpreter, scribe, reader, etc.) is the responsibility of the school/requestor. It is also the school/requestor's responsibility to provide any approved equipment to aide in the accommodation process, if applicable.

## Fruits and Vegetables and Related Careers

## CAREER OPPORTUNITIES FOUND IN THE CAREER CLUSTERS

Agricultural, Food \& Natural Resources

- Farmer
- orchard Owner
- produce Stand Operator

Marketing

- Fruit and Vegetable Grader

Finance

- Produce Merchandiser

Science Technology, Engineering \& Mathematics

- Nutritionist
- Food Scientist

Education\& Training

- Educator
- Writer/Editor for Produce Magazine
- Agricultural Extension Agent


## SAE OPPORTUNITIES

- Employment at a farm stand or orchard
- Employment at an agricultural research lab
- Experiment with sugar levels in different fruits


## EDUCATIONAL REQUIREMENTS/OPPORTUNTIES

- Associate degree and/or industry training - orchard owner, produce stand operator
- Bachelor's degree - fruit and vegetable grader, produce merchandiser, nutritionist
- Graduate Degree - agricultural extension agent, postsecondary educator


## PROFICIENCY AWARD AREAS

- Diversified Crop Production
- Fruit Production
- Vegetable Production
- Specialty Crop Production
- Agriculture Sales and/or Services


## New Jersey FFA Fruit and Vegetable CDE

PHASE 1: IDENTIFICATION
Directions: Record your answer in the first Identification section on the back of your scan-tron. Make sure you look at the specimen number where you are starting and enter your answer in the corresponding box.

| \# | NAME | \# | NAME | \# | NAME |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 101 | Apples, Golden Delicious | 136 | Chard, Swiss | 171 | Parsley |
| 102 | Braeburn | 137 | Chives | 172 | Parsnips |
| 103 | Fuji | 138 | Collards | 173 | Pear, Bartlett |
| 104 | Gala | 139 | Corn, Sweet | 174 | Pear, Bosc |
| 105 | Granny Smith | 140 | Cucumbers, Pickle | 175 | Peas, Sugar Snap |
| 106 | Honey Crisp | 141 | Cucumber, Slicer | 176 | Pepper, Bell |
| 107 | Macoun | 142 | Dandelion Greens | 177 | Pepper, Cubanelle |
| 108 | McIntosh | 143 | Date | 178 | Pepper, Habenero |
| 109 | Pink Lady | 144 | Dill | 179 | Pepper, Jalapeno |
| 110 | Red Delicious | 145 | Eggplant | 180 | Plum |
| 111 | Rome Beauty | 146 | Elderberry | 181 | Potato, Russet Type |
| 112 | Stayman | 147 | Endive, Belgiums | 182 | Potato, Sweet |
| 113 | Apricot | 148 | Endive, Chickory | 183 | Potato, White or Irish |
| 114 | Asparagus | 149 | Escarole | 184 | Pumpkin |
| 115 | Artichoke | 150 | Fig | 185 | Radicchio |
| 116 | Avocado | 151 | Florence Fennel | 186 | Radish |
| 117 | Basil, Sweet | 152 | Garlic | 187 | Radish, Black |
| 118 | Beets | 153 | Ginger | 188 | Raspberry |
| 119 | Beans, French (Haricot Vert) | 154 | Guava | 189 | Rhubarb |
| 120 | Beans, Snap | 155 | Horseradish | 190 | Rosemary |
| 121 | Bean Sprouts | 156 | Kale | 191 | Rutabaga or Swede Turnip |
| 122 | Blackberry | 157 | Kiwi Fruit | 192 | Shallots |
| 123 | Blueberries | 158 | Kolrabi | 193 | Spinach |
| 124 | Broccoli | 159 | Leek | 194 | Squash, Acorn Type |
| 125 | Broccoli Rabe | 160 | Lettuce, Butterhead | 195 | Squash, Butternut |
| 126 | Brussel Sprouts | 161 | Lettuce, Cos or Romaine | 196 | Squash, Patty Pan |
| 127 | Cabbage, Chinese | 162 | Lettuce, Leaf Type | 197 | Squash, Yellow Summer-Type |
| 128 | Cabbage, Green (round head) | 163 | Melon, Honeydew | 198 | Squash, Zucchini Type |
| 129 | Cabbage, red | 164 | Mushrooms | 199 | Strawberry |
| 130 | Cabbage, Savoy | 165 | Muskmelon | 200 | Tomato, Cherry |
| 131 | Carrots | 166 | Mustard Greens | 201 | Tomato, Oblate Fruit |
| 132 | Cauliflower | 167 | Nectarines | 202 | Tomato, Plum or Pear |
| 133 | Cranberry | 168 | Okra | 203 | Tomatillo |
| 134 | Celeriac (knob celery) | 169 | Onion, Globe | 204 | Turnip |
| 135 | Celery | 170 | Onion, Bunching (Scallion) | 205 | Watermelon |

## New Jersey FFA Fruit and Vegetable CDE

## PHASE 2: JUDGING

Directions: Please carefully read directions in their entirety before filling out Scan-tron sheets! For Phase II: Judging, you will identify and judge five (5) classes of fruits or vegetables. Each class of fruits or vegetables will consist of three plates numbered $1,2, \& 3$. There are five specimens on each plate.

Step 1:
First, identify the variety of fruits or vegetables in the class. Find the name and corresponding number of the fruit or vegetable on the Fruit and Vegetable Identification Sheet. On the back of the Scan-tron sheet, write the three-digit ID number in the bottom Identification section (Number of Specimen). Be sure to enter the answer in the number section that corresponds to the class you are identifying.
(Example, if you are starting at class \#3, be sure to fill in your answer in box number 3.) Again, be sure to bubble in the corresponding numbers on the Scan-tron sheet. Repeat these steps for all five classes of fruits and vegetables.

Step 2:
Second, Judge the plates within the class first (best), second (middle), third (least best), considering the following criteria in your decision:

| Form: | $10 \%$ | Freedom from blemishes: | $30 \%$ |
| :--- | :--- | :--- | :--- |
| Size: | $15 \%$ | Uniformity: | $25 \%$ |

Rank the plates in order - Best, Middle, and Least Best. This information will be entered on the front of the scan-tron in the "Practicum (Judges)" section. For example, if you feel the plates in class \#2 should be ranked 2 (best), 1 (middle), 3 (least best), you would enter and bubble in 2-1-3 in the 2 nd Practicum box on the front of the scan-tron. Be sure to bubble in the corresponding numbers on the Scan-tron sheet. Repeat this step for all five classes of fruits and vegetables.



Step 2: Judge/rank


SCORING

1. Ten (10) points received if variety is named correctly.
2. Placing points will be received even if variety is not named correctly.
3. The contestant will be scored according to the following schedule:
(Correct placing by judge: 123)
(Use cut cards supplied by State FFA Office to score)
$\begin{array}{ll}123-50 \text { points } & 231-20 \text { points } \\ 132-40 \text { points } & 312-10 \text { points } \\ 213-30 \text { points } & 321-0 \text { points }\end{array}$

## New Jersey FFA Fruit and Vegetable CDE <br> PHASE 3: WRITTEN EXAM - SAMPLE

1. In 2012, New Jersey ranked __ in the United States for cranberry production.
a. 1st
b. 3 rd
c. 7th
d. 15th
2. The $\qquad$ program, coordinated by the New Jersey Department of Agriculture, is a national recognized marketing program highlighting New Jersey's abundance of crops.
a. New Jersey Produce
b. Jersey Fresh
c. JerZee Produce
d. Jersey Pride
3. Which costs more: 4 pounds of apples at $\$ 2.49$ a pound, or 6 pounds of potatoes at 1.29 cents a pound or 8 ounces of blueberries at 10.00 per pound?
a. Apples
b. Potatoes
c. Blueberries
4. Perishable fresh fruits and vegetables should be stored in a clean refrigerator at a temperature of
$\qquad$
a. $30^{\circ} \mathrm{F}$
b. $40^{\circ} \mathrm{F}$
c. $50^{\circ} \mathrm{F}$
d. $60^{\circ} \mathrm{F}$
5. When preparing any fresh produce, begin with clean hands. Wash your hands for at least $\qquad$ seconds with soap and warm water before and after preparation.
a. 10 seconds
b. 15 seconds
c. 20 seconds
d. 25 seconds

Answers:

1. $b$
2. $b$
3. $a$
4. b
5. c

HORTICULTURE CDE\＃ 105482
Incomect Marks Conect Mark This sheet is for demonstration and practice only．You must use a real scan sheet for actual competition．



| Placing Classes |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Place | Class | Place |  |
|  |  |  |  |  |
| 1 | 1234 | ○○○○○○○○○ | 1234 | 1 |
| 2 | 1243 | －0000000c | 1243 | 2 |
| 3 | 1324 | 000000000 | 1324 | 3 |
| 4 | 1342 | 000000000 | 1342 | 4 |
| 5 | 1423 | 000000000 | 1423 | 5 |
| 6 | 1432 | 000000000 | 1432 | 6 |
| 7 | 2134 | 000000000 | 2134 | 7 |
| 8 | 2143 | 000000000 | 2143 | 8 |
| 9 | 2314 | 000000000 | 2314 | 9 |
| 10 | 2341 | 00000000 | 2341 | 10 |
| 11 | 2413 | 000000000 | 2413 | 11 |
| 12 | 2431 | 100000000 | 2431 | 12 |
| 13 | 3124 | OOOOOOOOO | 3124 | 13 |
| 14 | 3142 | 000000000 | 3142 | 14 |
| 15 | 3214 | ○○○ロロロロロく | 3214 | 15 |
| 16 | 3241 | －0〇〇〇〇〇〇〇 | 3241 | 16 |
| 17 | 3412 | －0000000c | 3412 | 17 |
| 18 | 3421 | －00000000 | 3421 | 18 |
| 19 | 4123 | －0¢000000 | 4123 | 19 |
| 20 | 4132 | －0ロ000○○○ | 4132 | 20 |
| 21 | 4213 | －0ல○○○○○○ | 4213 | 21 |
| 22 | 4231 | －00000○○○ | 4231 | 22 |
| 23 | 4312 | －○○○○○○○○ | 4312 | 23 |
| 24 | 4321 |  | 4321 | 24 |



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