

Apple Judging

Career Development Event

A. Purpose of the Event

Apple Judging and grading events are used in instructing individuals in a better understanding and appreciation of the various grades and varieties of apples and pears. The event entails apple grading, identification of varieties and blemishes, tray grading, entomology and fruit maturity.

B. Objectives

i. General

To prepare students as competent consumers, producers, and employees of tree fruit industry.

ii. Behavioral

- a. Demonstrate skills in determining apple grades.
- b. Identify pear and apple varieties.
- c. Identify blemishes on apples and pears
- d. Evaluate two classes of four trays of apples according to Washington State Standards.
- f. Perform Pressure Test
- g. Establish harvest date from bloom date.
- h. Identify insects.
- I. Demonstrate knowledge of pesticide related issues.

C. References

- i. Washington State Standards for Apples,
Washington State Department of Agriculture.
- ii. Private Applicator pesticide Education Manual
(MISCO126)

D. Rules

- i. Eligibility
Refer to Career Development Event Guidelines.
- ii. Levels of events are local, district, and state.
 - a. You do not have to place in the top three at Districts to qualify for the State competition.
- iii. Team Members
 - a. Each school may enter four to five contestants. Scores of the four high contestants will be counted as the team score.
 - b. The four members of the winning team are ineligible to compete in future State Apple Career Development Events
- iv. Event location and time may be found in the State FFA Calendar.
- v. Conducting the event
 - a. Event personnel
The superintendent is responsible for securing competent judges and overall organization and operation of the event.

Other event personnel include runners, tabulators, group leaders, and timekeepers.

b. Registration procedure

1. Schools participating in this CDE event will register according to the current Washington State CDE guidelines. Contestants will report for instruction to the division superintendent at the time, date and place listed in the State FFA calendar.
2. Each team member should come equipped with a clipboard for holding judging and grading sheets. All instructors must remain and help with the event until results are declared or their teams shall be eliminated.

c. Recommendations

1. Each apple in variety Id, Blemish Id, and Grading should be numbered with a permanent marker.
2. If apples with multiple blemishes must be used, the blemish to be identified should be circled with a permanent marker.

c. Sections

Apple Grading- Twenty-five of each of the following varieties: Red Delicious, and Green and Yellow. Apples selected by judges should not be liners, but should be definitely in one of the grades, or culls, according to Washington Standards for Apples, minimum

grade. (Punctures, stem pulls, and bruises will not count because of handling.)

Variety Identification- Each specimen shall be characteristic of its variety and there shall be 25 apples or pears selected from the following varieties: Red Delicious, Cameo, Pink Lady, Golden Delicious, Bartlett, Anjou, Bosc, Winter Banana, Gala, Jonagold, Fuji, Braeburn and Granny Smith,

Blemish Identification- Fifty apples split into two classes of the following blemishes (bruises, are not to be identified because of the many handlings): San Jose Scale, Scab, Bitter Pit, Growth Crack, Chewing Injury, Limb Rub, Lygus Injury, Codling Moth Injury, Sunburn, Indenture (drought spot, hail mark or thinning injury), Stink Bug Injury and Pandemis Injury. Each specimen will have no more than one blemish to be identified.

Tray Judging- There shall be two classes of four trays each. One class shall consist of Red Delicious apples and one class of another variety of apples (preferably Goldens)

Entomology Identification- Students will identify the following insects: Codling Moth, Red Mite, San Jose Scale, Woolly Apple Aphid, Cut Worm, Lygus Bug, Honey Bee, Predator Mite, Tentiform Leaf Minor, Green Lace Wing, Lady Bug, Pandemis Leaf roller, Rosey apple Aphid, Apple Maggot, Oblique Banded Leaf Roller, Stink Bug, White Apple Leafhopper, Grape Mealybug, Green Apple Aphid, Western Thrip, Cherry Fruit Fly, Two Spotted Spider Mite, Earwig, McDaniel Spider

Mite, Oystershell Scale, Pear Psylla, Shot Hole Borer and Black Ant.

d. Judges

The superintendent should select competent Judges. Industry professionals should be used whenever possible to official the CDE. Washington State Department Of Agriculture inspectors are preferred.

e. Student Activity or Procedure

The students will be responsible for judging at eleven stations. The nine stations are apple grading, identification of varieties, fruit maturity, insect identification, blemish identification, Private pesticide Applicator and tray judging. Students will rotate from station to stations upon the okay of the timekeeper.

F. Contest Scoring

1. Apple Grading-----25 points

Station 1- Red Delicious 12.5 apples, each apple is worth 1 point

Station 2- Golden Delicious 12.5 apples, each apple is worth 1 point

2. Variety Identification-----50 points

Station 3- 25 apples each apple is worth 2 points

3. Blemish Identification-----50 points

Station 4- 25 apples, each apple is worth 1 point

Station 5- 25 apples, each apple is worth 1 point

4. Tray Judging-----50 points

Station 6- Golden Delicious Trays (4 trays) 25 points

Station 7- Red Delicious Trays (4 trays) 25 points

5. Fruit Maturity-----25 points

Station 8- Fruit Firmness, Pressure Test 10 points

a. 5 points for the three pressure readings on 1 apple correctly averaged.

(Tolerance—1 # + or - equals full credit.)

b. 5 points for safe and correct technique at the judge's discretion.

Station 9- Harvest dates from full bloom 15 points

Golden Delicious- 143 days

Red Delicious- 147 days

Fuji- 165 days

***The Day following the Bloom date will be considered the first growing date.

6. Entomology identification-----20 points

Station 10- Identify 20 insects important to apple production--one point each.

7. Private Pesticide Applicator ----- 25points

Station 11

A 25 multiple choice test. All actual questions and answers will

come from the most current Private Applicator Pesticide Education Manual (WSU cooperative extension publication # MISC0126)

Odd years the questions will come from the questions at the end of sections titled

- Federal and Washington Pesticide Laws
- The Pesticide label
- Pesticide Hazards and Health

Even years the questions will come from the questions at the end of sections titled

- Using Pesticides Safely
- Pesticides and the Environment
- Management Of Insects And Mites