Cotton

Revised 12/2023

Purpose

The Cotton contest seeks to effectively prepare the students for the expectation of the cotton industry. Workers seeking careers in cotton must not only develop a high degree of knowledge and skill, they must also develop the ability to solve difficult problems. This contest blends the critical thinking, mathematical, and plant biology knowledge and skills along with the ability to express oneself through oral communication. The knowledge gained from this contest can also be applied to general crop production. California Career Technical Education Model Curriculum Standards addressed by this event include:

Foundation Standards: Academics 1.1 Mathematics 15.0, 8.0, 11.0, 1.3 History-Social Science

12.2.2, 12.2.5, 12.2.6, 12.2.7, 12.2.10, 2.0 Communication, 2.4 Listening and Speaking 1.1, 2.2,

1.8, 9.0 Leadership and Teamwork.

Plant and Soil Science Pathway Standards: G 1.0 - G1.1, G1.3, G1.5, G1.6, G3.0 - G3.1, G3.2,

G3.3, G3.4, G3.5, G3.6, G 5.0 - G5.1, G5.2, G5.3, G5.4, G5.5, G 6.0 - G6.1, G6.2, G 7.0 -

G7.1, G7.2, G10.0 - G10.1, G10.3, and G11.0 - G11.1, G11.3, G11.4.

Contestants

The team 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.

“A" teams shall consist of four members, the three highest scores will count as the team score, and will compete for State Championship. Only one “A” team may be entered. More than one "B" team per school may enter. Any other members, e.g., alternates not on the "A" or "B" teams may also participate in the "B" contest.

Classes

|  |  |  |
| --- | --- | --- |
| Class | Individual Points | Team Points |
| Plants | 50 | 150 |
| Open Bolls | 50 | 150 |
| Cotton Lint | 50 | 150 |
| Cotton Seed | 50 | 150 |
| Plant Reasons | 50 | 150 |
| Open Boll Reasons | 50 | 150 |
| Cotton Lint Reasons | 50 | 150 |
| Cotton Seed Reasons | 50 | 150 |
| Quiz | 100 | 300 |
| TOTAL | 500 | 1500 |

Tie Breaker

Judging - Overall Contest

1. Individual or team total reasons score.

2. Individual or team examination score.

Judging – Sub--contests

1. Individual or team reasons score for that sub-contest.

2. Individual or team total reasons score.

3. Individual or team total overall score.

Quiz

1. Individual or team total reasons score.

2. Individual or team overall score.

Sub-contest Awards

Sub-contest awards will be given for high teams and individuals in the following areas: Plants, Open Bolls, Lint, Seed, Quiz (Reasons included in respective class sub-contests).

Rules

1. Time
   1. Quiz - Fifty (50) minutes shall be allowed.
   2. Judging - Twelve (12) minutes shall be allowed for each of four (4) classes of four (4) samples each.
   3. Reasons - Two (2) minutes shall be allowed for giving reasons on each class.
2. Judging samples may not be touched or handled in any way.
3. Outline of the Contest
   1. A 100-point quiz will emphasize the practical and important aspects of cotton growing, harvesting, ginning, and marketing; the factors used in judging the quality of plants, bolls, seeds and lint; and the kinds of things a cotton farmer is expected to know about cotton in California.
      1. The 100-point quiz shall consist of thirty (30) True/False questions of two (2) points each and twenty (20) multiple choice questions of two (2) points each.
      2. Scoring shall be done on Scantron answer sheet provided. All contestants bring a No. 2 pencil for this.
   2. The critique will cover all classes and the test. All schools entering the contest will be mailed a copy of last year’s quiz.
   3. The judging classes will be selected to show both desirable and undesirable qualities in each of the classes with sufficient and recognizable differences to be put in logical order of merit with sound reasons for the placing.
      1. Only Upland cotton (Gossypium Hirsutum), Pima Cotton (Gossypium Barbadense), or Acala Hybrid will be judged. The species of each class will be determined by the host and labeled as such. Each class must contain only one specie. Questions on the quiz will involve both Pima and Upland cotton.
      2. Judging and Reasons - 400 points total (50 for placing and 50 for reasons in each of the four (4) judging classes).
      3. The following score cards are provided as a guide for judging and are not considered empirical.
   4. Reasons scores based on content and oral presentation. (approximately 50% of each)
4. Judging Score Card Guide
   1. PLANTS - Four (4) entries each representing four (4) feet of row.
      1. Score Card
         1. Plants - moderate (3-4 feet) uniform height, symmetrical, free of disease, many fruiting limbs well distributed, machine harvest type 30%
         2. Production - indicated by many well developed bolls, starting with the first fruiting position on the branch. 40%
         3. Bolls - abundant, uniformly mature, uniformly distributed, large, free of insect and disease damage. 20%
         4. Exhibition - plants well defoliated, bolls clean, uniform plants. 10%
   2. OPEN BOLLS - Four (4) entries of twenty (20) bolls each, displayed with ten bolls in the upright position and ten bolls down in one display case.
      1. SCORE CARD
         1. Size of bolls - large, well opened ready for harvest. 20%
         2. Uniformity of bolls, all mature. 20%
         3. Color - white to creamy preferred. 20%
         4. Condition - free from damage of insects and disease, free from immature fibers, free from stains. 20%
         5. Display - free from trash, well displayed and trimmed. 20%
   3. COTTON LINT - No stapling of cotton will be required. Judge only the top surface of each entry.
      1. Score Card
         1. Color - brilliant white color free from stains, spots, or discoloration. 35%
         2. Trash - (leaf and extraneous matter) - free from foreign materials such as leaf, grass, motes, etc. (Pin or pepper leaf is worse than large leaf). 30%
         3. Preparation - smoothly ginned and free from neps and naps, and rough appearance. 35%
   4. COTTON SEED - Four (4) samples of approximately one (1) pound each of gin-run seed. Judge only the top surface of each entry.
      1. Score Card
         1. Maturity - plump, good weight, quality of linters (fibers bright and resilient) full-bodied meats. 30%
         2. Trash - clean, free from sticks, stems, motes, cross contamination, and leaf trash. Free from weed seeds. 20%
         3. Uniformity - freedom from pinched thin blank seeds, uniform linters on seeds. 20%
         4. Condition - free from discoloration or weathering of linters or seeds. Amount of lint (excess lint remaining on seed is undesirable). Freedom from damaged kernels (heat or cracked), overall general appearance. 30%
5. References: The following references may be helpful in learning more about quality cotton production:
   1. University of California Cooperative Extension Publications dealing with: Cotton Irrigation, Harvesting; Diseases; Quality; Chemical Harvest Aids. A current list of the publications is contained in the "Agricultural Publications Catalog", which is updated annually and is available from: Publications, University of California, 6701 San Pablo Ave, Oakland, CA 94608-1239. Telephone 1-800-994-8849. The University of California Cooperative Extension Publications, Cotton Production – the red covered book, shall supersede all other books.
   2. The Classification of Cotton U.S.D.A., Agricultural Handbook 556 (1993).
   3. Issues of cotton industry publications; ie.  
      Cotton Grower Farming, California Farmer, California-Arizona Farm Press, Western Farm Press, The Cotton Chronicle from California Cotton Ginners, and Growers Association. The last date of publication must be a minimum of 30 days and a maximum of 1 year.
   4. Issues of California Cotton Review, a newsletter published periodically by Cooperative Extension, University of California, Oakland, CA 94612-3650, published in the last nine months.