CATA Curricular Code Change Proposal

Make a copy of this document. In order to input information.

Contest:	
Proposed by: (Name, School, Email)	

	Issue: (Describe the	reason/rationale	for the p	proposed	change.)
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Please answer yes or no to ALL the questions below.

This proposal will require a contest to open out of rotation	
The change will affect General Rules	
The change will affect the awards needed.	
Which JudgingCard scorecard will be used for tabulations.	
The proposed change will affect contest forms.	
The proposed change will affect contest hosting site. (e.g. additional facilities, new sections, additional scoring, etc.)	

If you answered yes to any of the above questions, you need to include the following signatures: <u>Click here</u> for link to CDE Contest Advisor and Coordinator list.

CATA Approved Contest Advisor's Signature	
CDE Host Site Contest Coordinator's Signature agreeing that changes are able to be accommodated by the host site.	

If you answered yes to any of the above questions, please explain.

*It is highly recommended that you, or a representative, attend the pre-conference governing board meeting to answer any questions regarding proposed curricular code changes to contests that are requested to be opened out of rotation.

Proposed CATA Code Change: (Only include the section that the proposed change pertains to – do not include the entire contest. Reference numbered section. If editing text, show new text with old text in parenthesis. For large changes, set track changes in the Word document and attach the file, with edits, to this document when submitting.)

Instructions for Submitting Curricular Code Change

- Make sure the form is complete.
- Download and Submit this document as a PDF
 - \circ Click File \rightarrow Download \rightarrow Download as a PDF
- If your proposal requires signatures make sure to contact the contest advisor and contest host. **Tip:** Docusign, Doc Hub are great sources for digital signature requests.
 - <u>Click Here</u> for contest Host and Advisor List
- Email completed Curricular Change Proposal PDF to <u>cata@calagteachers.org</u> by June 1st.

Warning: Make sure you add all the topics or concerns you would like to discuss at the Curricular Code CDE meeting. If it's not posted on the CATA Curricular Code Changes website by June 1st, it <u>cannot</u> be discussed.

AGRICULTURAL PEST CONTROL

Revised 06/2024

Purpose and Standards

The purpose of the Agricultural Pest Control Career Development Event (CDE) is to provide students with new insights into the science and practice of pest management with a specific emphasis on the California Agricultural Industry.

Pests are organisms that damage or interfere with desirable plants in our fields and orchards, landscapes, or wildlands, or damage homes or other structures. A pest can be a plant (weed), vertebrate (bird, rodent, or other mammal), invertebrate (insect, tick, mite, or snail), nematode, pathogen (bacteria, virus, or fungus) that causes disease, or other unwanted organism that may harm water quality, animal life, crop production, or other parts of an ecosystem.

Participants will accurately identify and apply the correct scientific and common name to pests from the categories of Gastropoda, Arachnida, Insecta, and Symphyla. Additionally, participants will give an oral presentation to a panel of industry experts explaining specimens from the categories of beneficial insects, quarantine or invasive insects, and vertebrate pests.

Participants of the Agricultural Pest Control CDE strengthen their leadership, observation, analysis, critical thinking and communication skills while also developing and exercising a competitive team spirit and building an awareness of career opportunities within the pest management industry.

Foundation Standards: 1.2, 1.2d, 2.0, 2.3, 2.4, 2.41.1, 2.41.8, 5.0, 5.1, 5.3, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, and 11.0.

Agricultural Pathway Standards: C C2.1, C2.2, C6.1, C11.1, C12.1, C12.2, and C12.3

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 Points	Team Points
Objective-Type Examination	900	2700
Oral Presentations Total	600	1800
Beneficial	200	
Quarantine/Invasive	200	
Vertebrate Pest	200	
Possible Contest Total	1350	4500

Tie Breaker

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

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3. If a tie still exists, the contestant with the highest individual Objective Exam score 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: Exam, Oral Presentation (based on combined beneficial, quarantine/invasive & vertebrate scores).

Rules

- I. This contest shall consist of two parts: (1) an objective type examination on 30 insects of California and (2) oral presentations of two insects and one vertebrate pest. Up to three specimens in the Objective-Type Exam can display the actual crop damage.
- II. The pest will be displayed in the most appropriate mount available. As many growth stages of the insect will be shown as is possible, including at least the stage most commonly seen in nature. No pictures are to be used.
- III. Only common names and orders will be used in the contest and must be used as listed in the Code to receive credit. Scientific names are included only as an aid to help in identification study prior to the contest.
- IV. Objective Type Examination
 - A. The time allowed shall be 30 minutes for identification on a rotation basis.
 - B. Both Common Name and Order must be written by the contestant as listed in the Curricular Activities Code for points to be given.
 - C. Contestants must check the appropriate places on the scorecard for all destructive stages of the pest. Mouthparts of the most destructive stage will <u>also</u> be indicated by the contestant.
 - D. Next to each specimen a list of 5 potential hosts numbered 1-5 to be entered on the scan form. <u>DISCUSSION POINT: [This does not align with the scorecard example below; discuss wording]</u>
 - E. No partial points will be given on scorecard for incomplete answers or improper identification or misspelling.
 - F. Scoring for Objective-Type Examination will be as follows: (Note: Each area will be scored independently. For example: If <u>Common Name is incorrectly written</u>, points will be given for correctly identifying order, destructive states, etc.)
 - 1. Common Name (10 Points)
 - 2. Order (5 Points)
 - 3. Destructive Stage(s) (5 Points)
 - Mouthparts (5 Points)
 - 5. Host (5 Points) <u>(Section IV. I indicates one (1) host on scorecard)</u>
 - G. Each specimen is worth a total of 30 points.
 - H. No duplicate specimens may be used in the Objective-Type Exam. For example, "Cabbageworm" can only be used once in the exam.

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List from which 30 pests or insects will be chosen: (Common names only will be used in the contest). I. Class: Gastropoda Order: Stylommatophora - Snails & Slugs Brown Garden Snail - Helix aspersa Formatted: Font: Italic II. Class: Arachnida Order: Acari - Mites Twospotted Spider Mite - Tetranychus urticae Formatted: Font: Italic Citrus Red Mite - Panonychus citri Formatted: Font: Italic III. Class: Insecta Order: Orthoptera - Grasshoppers, Crickets, Cockroaches. Grasshopper - Acrididae (family) Field Cricket - Gryllus spp. Formatted: Font: Italic Katydid - Various spp. American Cockroach – Periplaneta gmericana Formatted: Font: Italic German Cockroach - Blattella germanica Deleted: A Oriental Cockroach - Blattella orientalis Formatted: Font: Italic Order: Dermaptera – Earwigs Formatted: Font: Italic European Earwig - Forficula auricularia Formatted: Font: Italic Order: Isoptera – Termites Termite - Various spp. Order: Mallophaga - Chewing Lice Chicken Body Louse - Menacanthus stramineus Formatted: Font: Italic Order: Thysanoptera – Thrips Formatted: Font: Italic Thrips - Thripidae (family) Deleted: H Order: Hemiptera - True Bugs, Aphids, Scale, Leafhoppers, Mealybugs Formatted: Font: Italic Lygus Bug – Lygus hesperus Formatted: Font: Italic Squash Bug - Anasa tristis Formatted: Font: Italic Green Stink Bug – Acrosternum hilare Formatted: Font: Italic Brown Marmorated Stink Bug - Halyomorpha halys Bagrada Bug – Bagrada hilaris Formatted: Font: Italic Glassy-Winged Sharpshooter – Homalodisca vitripennis Formatted: Font: Italic Leaf-footed Bug – Leptoglossus phyllopus Formatted: Font: Italic Beet Leafhopper – *Circulifer tenellus* Formatted: Font: Italic Grape Leafhopper - Erythroneura elegantula Formatted: Font: Italic Cabbage Aphid - Brevicoryne brassicae Formatted: Font: Italic Spotted Alfalfa Aphid – Therioaphis maculata Formatted: Font: Italic Rose Aphid - Macrosiphum rosae Formatted: Font: Italic San Jose Scale - Diaspidiotus perniclosus Formatted: Font: Italic California Red Scale - Aonidiella aurantii Formatted: Font: Italic Brown Soft Scale - Coccus hesperidum Formatted: Font: Italic Black Scale - Saissetia oleae Formatted: Font: Italic Cottony Cushion Scale - Icerya purchasi Deleted: 04_C01

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Grane Mealybug- Pseudococcus maritimus	Formatted: Font: Italic
Whitefly Alourodidae (family)	l'offidiced. Fort. Italie
Citricola Scale - Coccus pseudomagnoligrum	Formatted: Font: Italic
Bean Anhid - Anhis fahae	Formatted: Font: Italic
Green Peach Aphid - Myzus persicae	Formatted: Fort. Italic
Longtailed Mealybug - Pseudococcus longispinus	
Western Boxelder Bug – <i>Boisea rubrolineata</i>	Formatted: Font: Italic
Order: Lepidoptera - Butterflies and Moths	Formatted: Font: Italic
Cabbageworm – Pieris rapae	Formatted: Font: Italic
Alfalfa Caterpillar - Colias eurytheme	Formatted: Font: Italic
Western Grapeleaf Skeletonizer - Harrisina brillians	Formatted: Font: Italic
Indian Meal Moth - <i>Plodia interpunctella</i>	Formatted: Font: Italic
Navel Orangeworm - Amyelois transitella	Formatted: Font: Italic
Oriental Fruit Moth - Grapholita molesta	Formatted: Font: Italic
Codling Moth - Laspeyresia pomonella	Formatted: Font: Italic
Peach Twig Borer - Anarsia lineatella	Formatted: Font: Italic
Tomato Hornworm - Manduca spp.	Formatted: Font: Italic
Corn Earworm – Helicorerpa zea	Formatted: Font: Italic
Alfalfa Looper - Autographa californica	Formatted: Font: Italic
Cutworm - Noctuidae (family)	
Western Yellowstriped Armyworm - Spodoptera praefica	Formatted: Font: Italic
Saltmarsh Caterpillar - Estiqmene acrea	Formatted: Font: Italic
Diamondback Moth – <i>Plutella xylostella</i>	Formatted: Font: Italic
Obliquebanded Leafroller – Choristoneura rosaceana	Formatted: Font: Italic
Omnivorous Leafroller – <i>Platynota stultana</i>	Formatted: Font: Italic
Order: Coleoptera - Beetles and Weevils	
Wireworm - Elateridae (family)	
Alfalfa Weevil - <i>Hypera <u>postica</u></i>	Formatted: Font: Italic
Bean Weevil - Acanthoscelides obtectus	Formatted: Font: Italic
Darkling Beetle – <i>Eleodes</i> sp.	Formatted: Font: Italic
Flea Beetle – Epitrix cucmeris	Formatted: Font: Italic
Granary Weevil - Sitophilus granarius	Formatted: Font: Italic
Sawtoothed Grain Beetle - Oryzaedhilus surinamensis	Formatted: Font: Italic
Shothole Borer – <i>Scolytus rugulosus</i>	Formatted: Font: Italic
Western Spotted Cucumber Beetle – <i>Diabrotica undecimpunctata</i>	Formatted: Font: Italic
Western Striped Cucumber Beetle – Acalymma trivittata	Formatted: Font: Italic
Green Fruit Beetle – <i>Cotinis texana</i>	Formatted: Font: Italic
Tenlined June Beetle – <i>Polyphylla decemlineata</i>	Formatted: Font: Italic
Order: Hymenoptera - Ants, Bees, Wasps	
Argentine Ant – Linepithema humilis	Formatted: Font: Italic
Harvester Ant - Pogonomyrmex sp.	Formatted: Font: Italic
Southern Fire Ant – <i>Solenopsis xyloni</i>	Formatted: Font: Italic
Order: Diptera – Flies	Providencial Production
House Fly - Musca domestica	Formatted: Font: Italic
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Horse Fly - <i>Tabanus</i> spp.			Formatted: Font: Italic
Stable Fly - Stomoxys calcitrans			Formatted: Font: Italic
Walnut Husk Fly – <i>Rhagoletis completa</i>			Formatted: Font: Italic
Mosquito – <i>Culex</i> spp.			Formatted: Font: Italic
Spotted Wing Drosoph	ila – Drosophila suzukii		Formatted: Font: Italic
Biting Midge – Culicoid	les variipennis		Formatted: Font: Italic
Order: Siphonaptera – Eleas	-		
Elea - Pulicidae (family			
Order: Zvgentoma – Silverfish	, Fishmoths, Firebrats		
Silverfish – Lepisma sa	ccharina		Formatted: Font: Italic
IV Class: Symphyla		*******	(
Order: Symphyla – Symphylar			
Graden Sumphylar	is Coutinoralla immanulata		Parmante de Carete Terlia
Garden Symphylans –	Scutigerella immaculate		Formatted: Font: Italic
<u>Destructive Stage(s) List</u>			Deleted: →
. Mouthparts List	•		Formatted: List Paragraph, Outline numbered + Level: 2 +
. Host: Contest coordinator must	d on the possible principle nosts from the list below with		Aligned at: 0.5" + Tab after: 0.75" + Indent at: 0.75"
wording of the principle bosts as	d on the scorecard. Contest nosts must use the exact listed below. Only the selections below will be used for the		Deleted: Common
actual crop damage when the ins	act is not procept. DISCUSSION BOINT/Is the average wording		Exemption Font: Italia
include all bosts listed for a speci	man or only one (1)2)	*****	Formatted: Font. Italic
include dir nosts listed for dispecti			
Brown Garden Spail	Avocado Citrus Strawberry		
Twospotted Spider Mite	All Crops		
Citrus Rod Mito	Citrus		
Field Cricket	Cotton Grain		
Grasshonner	All Crons		
Katydid	Citrus		
American Cockroach	Eermenting Fruits		
German Cockroach	Food Prenaration Areas		
Oriental Cockroach	Decaying Organic Matter		
European Farwig	All Crons		
Termite	Structural Post		
Chicken Body Louise	Poultry		
Thrins	Ornamental Tomatoes Onions Penners Citrus		
Livous Buo	Alfalfa Cotton Beans		
Sanash Bria	Cucurbits		
Green Stink Bug	Peaches Grain Almonds		
Bagrada Bug	Cole Crops		
Brown Marmorated Stink Bug	Fruit, Fruiting Vegetable Crops		
Glassy-Winged Sharpshooter	Granes		
Black Scale	Almonds, Citrus, Fruit Trees, Pistachios		
Brown Soft Scale	Citrus		
Cabbage Aphid	Cole Crops		
California Red Scale	Citrus		
Cottony Cushion Scale	Citrus Ornamentals		
Grane Leafhonner	Granes		
orape reantopper	Grupes		

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Rose Aphid San Jose Scale Spotted Alfalfa Aphid Beet Leafhopper Whitefly Grape Mealybug Citricola Scale Bean Aphid Green Peach Aphid Longtailed Mealybug Obliquebanded Leafroller **Omnivorous Leafroller** Western Boxelder Bug Alfalfa Caterpillar Alfalfa Looper Codling Moth Corn Earworm Cutworm Cabbageworm Indian Meal Moth Navel Orangeworm **Oriental Fruit Moth** Peach Twig Borer Saltmarsh Caterpillar Tomato Hornworm Western Grapeleaf Skeletonizer Western Yellowstriped Armyworm Diamondback Moth Alfalfa Weevil Bean Weevil **Darkling Beetle** Flea Beetle Granary Weevil Sawtoothed Grain Beetle Shothole Borer Western Spotted Cucumber Beetle Western Striped Cucumber Beetle Wireworm Green Fruit Beetle **Tenlined June Beetle** Argentine Ant Harvester Ant Southern Fire Ant Horse Fly House Fly Stable Fly Mosquito Spotted Wing Drosophila

Roses Fruit Trees, Walnuts, Almonds Alfalfa Tomatoes Cucurbits, Tomatoes, Lettuce Grapes Citrus Beans, Celery Vegetables, Ornamentals Nursery Stock, Ornamentals Cherry, Peach Avocado, Cotton, Grapes Almonds, Grapes, Peach Alfalfa, Beans Alfalfa, Cotton Pears, Walnuts Corn, Tomatoes, Peppers, Lettuce, Cotton Beans, Cole Crops, Corn, Cotton, Tomatoes Cole Crops Grain, Seeds, Stored Nuts Almond, Pistachios, Walnuts Cherry, Peach, Plum Peaches, Almonds Beans, Cole Crops, Lettuce, Celery Tomatoes Grapes Cotton, Alfalfa Cole Crops Alfalfa Beans Cole Crops, Lettuce, Pistachios Lettuce, Pepper, Tomatoes Grain Grain Avocado, Cherry, Peach, Plum Lettuce, Cole Crops, Beans, Potatoes, Cucurbits Cucurbits Tuber Roots, Corn, Cotton Peach, Plum Almonds Citrus Seeds Almonds Horses, Cattle Rotting Vegetables, Livestock, Manure Livestock Warm Blooded Animals Berries, Cherries 5/31/2025

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Agricultural Pest Control

Walnut Husk Fly	Walnut
Biting Midge	Livestock
Flea	Warm Blooded Animals
Silverfish	Starches, Sugar, Paper
Garden Symphylans	Cole Crops, Peppers, Tomatoes

V. Oral Presentations

- A. Oral presentations will be given by each contestant; a maximum time limit of three minutes will be allowed for the oral presentation of each of three specimens which will consist of one beneficial insect, one quarantine insect/invasive, and one vertebrate pest. The contestant will have 30 seconds to view the specimen and the time will begin; after two minutes, the judge will stop the presentation if not complete at that time. Within this 3 minute time frame, the judge may ask questions.
- B. Prior to the contest, pests for oral presentations will be selected by the judges and not by the contestants.
- C. One pest will be selected from each of the three categories containing six pests each, 18 total. The categories are beneficial, quarantine/invasive, and vertebrate pests.

COMMON NAME	SCIENTIFIC NAME
Beneficial:	
Honey Bee	Apis mellifera
Lacewing	Chrysopa sp.
Convergent Lady Beetle	Hippodamia convergens
Assassin bug	Zelus spp.
Mantid	Mantis religiosa
Big Eyed Bug	Geocoris spp.
Quarantine/Invasive:	
Japanese Beetle	Polillia japonica
Mediterranean Fruit Fly	Ceratitis capitata "A"
Light Brown Apple Moth	Epiphyas postvittana
European Grapevine Moth	Lobesia botrana
Asian Citrus Psyllid	Diaphorina citri
Red Imported Fire Ant	Solenopsis invicta
Vertebrate Pests:	
Norway Rat	Rattus norvegicus
Vole (Meadow Mouse)	Microtus spp.
Pocket Gopher	Thomomys spp.
California Ground Squirrel	Otospermophilus beecheyi
Deer	O. hemionus columbianus
Jackrabbit	Lepus californicus

D. Scoring will be as follows: The contestant should have a general knowledge of the insect which would include such things as:

1. Beneficial; Order, life cycle, habits, hosts, beneficial importance.

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CATA Curricular Activities Code Agricultural Pest Control 2. Quarantine/invasive insects: Order, principle life cycle, habits, hosts, preventative measures taken, important, procedure taken if quarantine insect is found in California and control measures to be taken. 3. Vertebrate pests: Order, life cycle, habits, habitat, damage and control measures. 4. Scoring of presentations: (Note: no points for improper ID) a. Subject matter 60% b. Logic and force 10% c. Bearing and address 10% d. Questions 20% Deleted: DISCUSSION POINT: (Is there a definitions for "logic and force" and "bearing and address"?) Formatted: Font: Italic VI. References Formatted: Indent: Left: 0.4", No bullets or numbering A. Borrer and Delong: Introduction to the Study of Insects, 1963. B. Comstock and Merrick: Manual for the Study of Insects. C. Essig: Insects of Western North America. D. Fernald: Applied Entomology. E. Fichter, George S.: Insect Pests, A Golden Nature Guide. F. Kono and Papp: Handbook of Agricultural Pests. G. Metcalf: Fundamentals of Insect Life. H. Metcalf and Flint: Destructive and Useful Insects. I. Sweetman: Biological Control of Insects. USDA 1962 Yearbook of Agriculture, Insects J. 1. References used by judges include only latest published recommendation on pest control made by U.C. Extension Service and Experiment Station as summarized and presented by U.C. Entomology Department who will consider and include pest control recommendation throughout the State of California. 2. Common Names of Insects: 1978 revisions, Douglas W.S. Sutherland, Chairman, Committee on Common Names of Insects, Entomological Society of America. Source for Purchasing Insects: Combined Scientific Supplies, P.O. Box 1446, Fort Davis, Texas 79734. K. VEP, Pest ID Kit (Cal Poly) L. Wildlife Pest Control Around Gardens and Homes, Cooperative Extension, University of California, Publication #21385. See your local Cooperative Extension for more information on California Pests. M. University of California, Davis IPM Website: www.ipm.ucdavis.edu Deleted: 04 C01

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ple Scorecard:			Deleted: ¶
nmon Name er			۹
Destructive Stage(s)	Mouth <mark>p</mark> art <mark>s</mark>	Principle Host	Deleted: P Deleted: (s)
Larva Nymph Adult Adult Female	Chewing Rasping Sucking Sponging	Cotton Pistachio Almond Grape	
		Iomato	
nmon Name er	Mouthparts	Principle Host	Deleted: P
nmon Name er Destructive Stage(s)	Mouth <mark>p</mark> art <u>s</u>	Principle Host	Deleted: P Deleted: (s)
Imon Name er Destructive Stage(s) Larva Nymph Adult	Mouthparts, Chewing Rasping Sucking	Principle Host Fermented Fruits Decaying Organic Matter Grains	Deleted: P Deleted: (s)
nmon Name er Destructive Stage(s) Larva Nymph Adult Adult Female	Mouthparts, Chewing Rasping Sucking Sponging	Principle Host Fermented Fruits Decaying Organic Matter Grains Stored Nuts All Crops	Deleted: P Deleted: (s)
nmon Name er Destructive Stage(s) Larva Nymph Adult Adult Female	Mouthparts Chewing Rasping Sucking Sponging	Principle Host Fermented Fruits Decaying Organic Matter Grains Stored Nuts All Crops	Deleted: P Deleted: (s)
nmon Name er Destructive Stage(s) Larva Nymph Adult Adult Female nmon Name er Destructive Stage(s)	Mouthparts, Chewing Rasping Sucking Sponging Mouthparts,	I omato Principle Host Fermented Fruits Decaying Organic Matter Grains Stored Nuts All Crops	Deleted: P Deleted: (s) Deleted: P Deleted: (s)
Immon Name er Destructive Stage(s) Larva Nymph Adult Adult Female Immon Name er Destructive Stage(s) Larva	Mouthparts, Chewing Rasping Sucking Sponging Mouthparts, Chewing Basping	I omato Principle Host Fermented Fruits Decaying Organic Matter Grains Stored Nuts All Crops	Deleted: P Deleted: (s) Deleted: P Deleted: (s)

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Adult Female	Sponging	Cole Crops
		Lettuce

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