

COLORADO



**DEPARTMENT OF
AGRICULTURE**

Pesticide Section

LICENSING

and

EXAMINATION GUIDE

for

**Commercial Applicators
Limited Commercial/Public Applicator
Qualified Supervisors
Certified Operators
Private Applicators**

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TABLE OF CONTENTS

Introduction	Page 5		
Who Must be Licensed or Registered?	Page 5		
Commercial Applicators	5	What Happens at the QS or CO Examination?	Page 11
Limited Commercial or Public Applicator	5	What to bring to the examination	11
Qualified Supervisor	5	Conduct during the examination	11
Certified Operator	5	Time limits for the examination	11
Private Applicators	5	While taking the examination	11
Reciprocity	5	Evaluation and question comments	12
What are the Requirements for Licensing or Registration?	Page 5	Friendly Suggestions	Page 12
Commercial Applicators	5	What Happens after the QS or CO Examination?	Page 12
Limited Commercial or Public Applicator	6	Passing Percentage	12
Qualified Supervisor	6	Examination Score Process and Report	12
Certified Operator	6	Reexamination Procedure	12
Private Applicators	6	Licenses	12
What are the Licensing or Registration Categories?	Page 6	Expiration and Renewals	Page 12
Agricultural	6	What are some Study Materials & Suggested References?	Pages 13-19
Ornamental	6	Price List & Order Forms	Pages 20-24
Structural	6	Colorado State University Cooperative Extension County Offices	Page 25
What are the Experience Requirements for Qualified Supervisor Licensing?	Page 6		
Agricultural Pest Control	6		
Ornamental Pest Control	7		
Structural Pest Control	8		
How do I Schedule My Examination?	Page 8		
How do I Prepare for the QS or CO Examination?	Page 9		
Review Study Materials	9		
Examination Content	9		
I. Laws and Regulations	9		
II. Pesticide Labels and Labeling	9		
III. Pesticides	9		
IV. Host & Pest Identification & Biology	10		
V. Safety and Protection	10		
VI. Pesticide Application	10		
Sample Questions	10		

INTRODUCTION

The Colorado Department of Agriculture, Division of Plant Industry, is charged with the responsibility of administering the Pesticide Applicators' Act under Title 35, Article 10, C.R.S. (the "Act") and associated rules and regulations which include the licensing and regulation of any individual or business who applies pesticides or use certain pest control devices for compensation or production agriculture in Colorado.

Limited commercial and public applicators must be registered with the Department, rather than licensed, if they apply restricted use pesticides. They may also choose to place themselves under the Department's jurisdiction, even if they do not apply restricted use pesticides.

The following is intended only to give you a general understanding of the licensing and registration requirements under the Act and associated rules and regulations. A printed copy of the Act and associated rules and regulations are available from the Department for a complete review. Also, please note that the requirements and conditions stated in this Guide are subject to change as amendments are made.

Who Must be Licensed or Registered?

Commercial Applicator: Any business or individual entity engaged in the business of applying any pesticide or operating certain pest control devices for hire, must be licensed as a commercial applicator.

This category includes, among others, lawn care services that apply herbicides or weed and feed products, tree sprayers, structural pest control operators and aerial applicators.

Limited Commercial or Public Applicator: Any business or individual who applies restricted use pesticides in the course of their business, on property they own or lease, must be registered as a limited commercial applicator. This category includes, among others, private golf courses and ditch irrigation companies.

Any agency of the State or subdivision of local government who applies restricted use pesticides, must be registered as a public applicator. This category includes, among others, weed control districts, highway departments, and parks.

If limited commercial or public applicators do not apply restricted use pesticides, they may still choose to register and be regulated by the Department.

Qualified Supervisor: Any individual employed by or acting on behalf of a commercial, limited commercial, or public applicator, who, without supervision, evaluates pest problems, recommends pest controls using pesticides or devices, mixes, loads, or applies any pesticide, sells any application services, operates devices, or supervises others in any of these functions must be licensed as a qualified supervisor.

Certified Operator: Any individual employed by or acting on behalf of a commercial, limited commercial, or public applicator, who uses restricted use pesticides without the on-site supervision of a qualified supervisor must be licensed as a certified operator.

Private Applicator: Any person who uses or supervises the use of a restricted use pesticide for purposes of producing any agricultural commodity on property owned or leased by the applicator or the applicator's employer or, if the pesticide is applied without compensation other than trading of personal services between producers of agricultural commodities, on the property of another person must be a licensed private applicator.

Reciprocity: An individual certified or licensed by another jurisdiction as a private or commercial pesticide applicator may become a licensed private or certified operator in Colorado without passing any examinations, but only for the unexpired term of that certification or license.

Application for a reciprocal private applicator's or certified operator's license must include proof of current certification and licensure in good standing in the other jurisdiction and payment of an application fee.

The reciprocal application may be denied for any appropriate reason other than failure to pass an examination. If issued, the license will expire on the expiration date of the certification or license issued by the other jurisdiction.

What are the Requirements for Licensing or Registration?

Commercial Applicator: An applicant for a commercial applicator's license must: (a) employ, or have available by agreement, at least one qualified supervisor who is

licensed in the category or subcategory of application being performed; (b) provide proof of required insurance; (c) submit a Certificate of Good Standing from the Secretary of State [(303) 894-2200] if applicant is a corporation, a limited liability partnership, or a limited liability company; (d) if an aerial applicator, provide a copy of certification issued by the FAA under 14 CFR, Part 137; and (e) **submit the \$350.00 license fee with the application.**

Limited Commercial and Public Applicator: An applicant for registration as a limited commercial or public applicator must: (a) employ, or have available by agreement, at least one qualified supervisor who is licensed in the category or subcategory of application being performed; (b) if not applying restricted use products, but choosing to register, a form acknowledging submission to the jurisdiction of the Department; (c) submit a Certificate of Good Standing from the Secretary of State [(303) 894-2200] if applicant is a corporation, limited liability partnership, or a limited liability company; (d) if an aerial applicator, provide a copy of certification issued by the FAA under 14 CFR, Part 137; and (e) **submit the \$50.00 registration fee with the application.**

Qualified Supervisor: An applicant for a qualified supervisor license must: (a) successfully complete the general exam plus exams in all categories applicable to the pesticide applications which they will be performing; (b) possess the experience and qualifications required by the rules and regulations; and (c) **submit the \$100.00 license fee with the application.**

Certified Operator: An applicant for a certified operator license must: (a) successfully complete the general exam plus exams in all categories applicable to the restricted use pesticide applications which they will be performing; and (b) **submit the \$100.00 license fee with the application;** or (c) apply to be licensed as a certified operator based on reciprocity.

Private Applicator: An applicant for a private applicator license must: (a) **submit an order form with a payment of \$20.00 for the private applicator exam and manual.** (b) successfully complete the private applicator exam; and (c) **submit the \$75.00 license fee with the application, exam answer sheet and a copy of driver's license.**

What are the Licensing or Registration Categories?

Agricultural

- 101 Agricultural Insect Control
- 102 Agricultural Plant Disease Control
- 103 Agricultural Weed Control
- 104 Seed Treatment
- 105 Livestock Pest Control
- 106 Forest Pest Control
- 107 Rangeland Pest Control
- 108 Aquatic Pest Control
- 109 Industrial and Right-of-Way Weed Control
- 110 Public Health Control
- 111 Research and Demonstration
- 113 Metam Sodium for Root Control in Sewers
- 401 Private Applicator

Ornamental

- 206 Turf Pest Control
- 207 Ornamental Pest Control

Structural

- 301 Wood Destroying Organism Pest Control
- 302 Outdoor Vertebrate Pest Control
- 303 Fumigation
- 304 Residential/Commercial Pest Control
- 305 Stored Commodities Treatment
- 306 Wood Preservation & Wood Products Treatment
- 307 Interior Plant Pest Control

What are the Experience Requirements for Qualified Supervisor Licensing?

Agricultural Pest Control:

1. An applicant for licensure as a qualified supervisor in **Agricultural Insect Control, Agricultural Plant Disease Control, Agricultural Weed Control, Seed Treatment, Livestock Pest Control, Forest Pest Control, Rangeland Pest Control, Aquatic Pest Control, Industrial and Right of Way Weed Control, Public Health Control, or Research and Demonstration** must have the following field experience or equivalents (See rules and regulations for exceptions). Such field experience must have been obtained within the 5 years immediately preceding the date of the application for licensure.

a. An applicant shall have obtained a minimum of 8 months field experience in agricultural pest control.

b. If an applicant has earned college or university credit in agricultural pest control or related fields, such credit may be combined with field experience in agricultural pest control in order to qualify for licensing, as follows:

(1) 2 years college credit and 2 months field experience in agricultural pest control; or

(2) 1 year college credit and 5 months field experience.

2. An applicant for licensing as a qualified supervisor in **Metam Sodium for Root Control in Sewers** must have the following field experience or equivalents. Such field experience must have been obtained within the 5 years immediately preceding the date of application for licensure.

a. An applicant shall have obtained at least 40 hours of field experience in applying pesticides in sewers, including, but not limited to metam sodium; or

b. a level 2 or 3 wastewater collection certification issued by the Colorado Water Distribution and Wastewater Collections Systems Council and 20 hours of field experience; or

c. a Class A, B, or C wastewater treatment plant operator certification issued by the Colorado Department of Public Health and Environment and 20 hours of field experience.

3. There is no experience requirement for those licensing in the 401 category. However a private applicator license is intended to be used in the production of an agricultural commodity which is defined as "any plant, or part thereof, or animal, or animal product, produced by a person (including farmers, ranchers, vineyardists, plant propagators, Christmas tree growers, aquaculturalists, floriculturalists, orchardists, foresters, or other comparable persons) primarily for sale, consumption, propagation, or

other use by man or animals.

Ornamental Pest Control

1. An applicant for licensing as a qualified supervisor in **Turf Pest Control** must have the following field experience or equivalents. Such field experience must have been obtained within the 2 years immediately preceding the date of the application for licensure. Experience in the application of pesticides gained by the applicant in the maintenance of his/her own home will not constitute experience that will satisfy the experience requirements.

a. An applicant shall have obtained at least 4 months of field experience in turf pest control.

b. If an applicant has earned college or university credit in turf pest control or related fields, such credit may be combined with field experience in order to qualify for licensure as follows. Such field experience shall have been obtained within the 2 years immediately preceding the application for licensure.

(1) 2 years college credit and 1 month field experience;

(2) 1 year college credit and 2.5 months field experience.

2. An applicant for licensing as a qualified supervisor in **Ornamental Pest Control** must have the following field experience or equivalents. Such field experience must have been obtained within the 2 years immediately preceding the date of the application for licensure. Experience in the application of pesticides gained by the applicant in the maintenance of his/her own home will not constitute experience that will satisfy the experience requirements.

a. An applicant shall have obtained at least 8 months field experience in ornamental pest control, gained within not less than 2 calendar years.

b. If an applicant has earned college or university credit in ornamental pest control or related fields, such credit may be combined with field experience in order to qualify for licensure as follows:

(1) 2 years college credit and 4 months field experience;

(2) 1 year college credit and 6 months field experience in ornamental pest control.

(2) 3 years college credit and 9 months field experience; or

(3) 2 years college credit and 14 months field experience; or

(4) 1 year college credit and 19 months field experience.

Structural Pest Control

1. An applicant for licensing as a qualified supervisor in **Wood Destroying Organism Pest Control, Residential/Commercial Pest Control** and **Fumigation** must have the following field experience or equivalents. Such field experience must have been obtained during the 5 years immediately preceding the date of the application for licensure. Experience using pesticides or devices, gained while the applicant was maintaining his/her own home, or performing janitorial or maintenance duties for another in a residential, industrial or commercial location will not satisfy the experience requirements.

a. An applicant for licensure must have obtained at least 24 months field experience in structural pest control.

In addition, an applicant for licensing as a qualified supervisor in the structural pest control category of wood destroying organisms must have obtained, within the two years immediately preceding the date of the applicant's application for licensing, at least 100 hours of verifiable field experience in termite control.

A minimum of 30 of the 100 hours must consist of verifiable "hands-on" field experience covering drill and inject and other post-treat methods and applications. Any or all of the 100 hours may be obtained in courses approved by the Commissioner.

b. If an applicant has earned college or university credit in structural pest control or related fields, such credit may be combined with field experience in related categories of structural pest control in order to qualify for licensure as follows:

(1) 4 years college credit and 4 months field experience; or

2. An applicant for licensing as a qualified supervisor in the categories of **Outdoor Vertebrate Pest Control, Wood Preservation and Wood Products Treatment, Stored Commodities Treatment, or Interior Plant Pest Control**, must have the following field experience or equivalents. Such field experience must have been obtained within the 5 years immediately preceding the date of the application for licensure.

a. An applicant must have obtained at least 8 months field experience in the related categories of structural pest control.

b. If an applicant has earned college or university credit in structural pest control, such credit may be combined with field experience in related categories of structural pest control in order to qualify for licensure, as follows:

(1) 2 years college credit and 2 months field experience; or

(2) 1 year college credit and 5 months field experience.

How do I Schedule My Exam?

For Qualified Supervisor and Certified Operators examinations are given at the Department's offices at 700 Kipling St., Suite 4000, Lakewood, Colorado [(303) 239-4148]. Examinations may be taken Wednesdays and Thursdays (except holidays) **by appointment only**. Examinations begin between 8:00 and 8:30 a.m.

At the time of examination, you must present a government issued form of identification, which includes your photograph, your complete physical description, and your signature (for example - a valid Colorado driver's license).

Examination and grading fees must be paid before taking any examination. Since these fees are subject to change, you should contact the Department for the current fee.

Occasionally, the Department schedules examination sessions at several sites outside the Denver metro area. The dates and times of these sessions are announced in newspapers, industry newsletters, and other media sources. Individuals wishing to take examinations at these sites must make a reservation to do so at the Department's Lakewood office. Examinations at these sites outside the Denver metro area are generally limited to 10 examinees per site.

For Private Applicators examinations are an open book test taken at your location. To order the Private Applicator Training Manual contact the Colorado Department of Agriculture at (303) 239-4186 or order online at www.colorado.gov/ag/dpi.

License fees should be submitted with the completed exam, the license application and a photocopy of the applicant's identification (a government issued picture ID). If the license fee is not submitted, the test will be graded and an invoice will be sent requesting payment before the license is issued.

If the examination is not passed, the tester will receive a test results letter, a new examination answer sheet, application form and a return envelope. The exam may be resubmitted up to three times. If the exam is not passed by the third attempt, there will be an additional \$20.00 examination processing fee for an additional three attempts.

How do I Prepare for the QS or CO Exam?

1. Review Study Materials. Obtain copies of all laws, rules and regulations and other suggested study materials and carefully review them prior to taking any examinations.

2. Examination Content. The general and category examinations consist of true-false and multiple-choice. Questions for the category examinations will be specific to that category and will cover subject areas such as **basic biology, pesticides and formulations, pesticide application, applicator safety, pest identification, environmental protection, integrated pest management, equipment knowledge, calibration, and host/site identification.** The general examination questions will be drawn from the following subject areas.

I. Laws and Regulations

A. Applicable federal laws and regulations such as the Federal Insecticide, Fungicide

& Rodenticide Act (FIFRA), the Comprehensive Environmental Response, Compensation & Liability Act (CERCLA), the Superfund Amendments and Reauthorization Act of 1986, Title III (SARA, Title III), etc.

B. Applicable state laws and regulations such as the Pesticide Applicators' Act, the Water Quality Control Act, etc.

C. Applicable local regulations and ordinances such as those relating to zoning, fire protection districts, etc.

II. Pesticide Labels and Labeling

A. Understand that the label is considered a legal document.

B. Be able to read and understand label requirements (brand/trade name, type of pesticide, restricted entry, formulation, ingredients statement, etc.).

C. Understand label terminology such as formulations and signal words (for example, wettable powder, DANGER, etc.).

D. Be able to read and understand a Material Safety Data Sheet (MSDS).

III. Pesticides

A. Be able to identify families and types of pesticides.

B. Be able to identify types of formulations (EC, WP, SP, etc.).

C. Be able to identify types of adjuvants and other types of additives (surfactants, dyes, fertilizers, etc.).

D. Understand pesticide characteristics and concepts (compatibility, synergism, persistence and environmental fate, resistance, mode of action, volatility, solubility, phytotoxicity, etc.).

E. Be able to recognize alternative control methods and practices (mechanical, biological, etc.).

IV. Host and Pest Identification and Biology

- A. Be able to recognize principles of host identification and biology.
- B. Be able to recognize principles of site/habitat identification.
- C. Be able to recognize principles of pest identification and biology.
- D. Be able to recognize damage to host or other factors caused by pests.
- E. Be able to recognize beneficial organisms.
- F. Understand life cycles, susceptible stages.
- G. Be able to evaluate environmental conditions and effects on host and pest biology.

V. Safety and Protection

- A. Personal and Public
 - 1. Understand exposure and toxicity (acute and chronic toxicity, routes of exposure, symptoms, practical first aid).
 - 2. Understand precautions to take to prevent injury to applicators, individuals, property, and the environment.
 - 3. Be able to recognize safe methods of handling pesticides during transportation, storage, mixing and loading, application, and equipment cleanup.
 - 4. Be able to maintain and understand a current reference file (MSDS, telephone hotlines, emergency procedures, etc.)
- B. Environmental
 - 1. Be able to identify meteorological and climatic factors affecting application (drift, runoff, etc.).
 - 2. Be able to identify the influence of terrain, soil, and substrata on possible ground water contamination.
 - 3. Be able to recognize sensitive areas and organisms that could be affected by application, drift, and runoff.

4. Understand precautions for protection of endangered and threatened species.

5. Understand methods of spill prevention, control, and cleanup.

VI. Pesticide Application

A. Be able to identify target pests, ascertain the economic threshold level, consider environmental impacts, select methods of control for a site and pest.

B. Be able to select material, formulation, equipment, determine dosage, calibrate equipment, load material, apply the pesticide or control measures, and conduct post-treatment evaluation.

3. Sample Questions. The following questions are intended to help you become familiar with some of the types of questions you may encounter on the examinations. These questions do not represent the full range of content or difficulty levels contained in the actual examinations.

1. Which federal agency is responsible for classifying pesticides as restricted or general use?

- A. Department of Interior
- B. Agricultural Chemical Agency
- C. Department of Agriculture
- *D. Environmental Protection Agency

2. Reentry intervals prevent

- A. excessive pesticide residues on crops.
- B. damage from drift.
- *C. unprotected workers from having hazardous pesticide exposure.
- D. contamination of the environment.

3. Pesticides used in the state of Colorado must be approved and registered by the Colorado Department of Agriculture.

*True

False

4. Matching questions may also be given. These questions generally have four or more statements and an equal number of answers to these statements. Each answer has to be matched to the corresponding statement to which it applies.

*Correct Answer

What Happens At the QS or CO Examination?

1. What to bring to the examination:

A. Identification - must bear your picture, a complete physical description and your signature. A driver's license is preferred.

B. Pencils - several #2 or softer lead, with erasers.

C. Calculator - Your calculator must be a silent, non-printing, battery operated or self-powered type. It must not be programmable, and must not be a device designed for the storage and retrieval of alphabetic data.

D. References - Examinees are not permitted to bring reference material into the testing room, or to share equipment during the examination.

2. Conduct during the examination. You are expected to conduct yourself in a professional manner during the examination. Any candidate engaging in conduct which subverts or attempts to subvert the examination process may be dismissed from the examination.

A. Do not bring **cellular phones, beepers, cameras, tape recorders, or electronic recording or transmitting devices** to the examination.

B. Do not take notes from the examination room. Scratch paper will be provided and collected at the end of the examination.

C. Do not remove examination materials from the examination site.

D. The examination proctors cannot answer any questions about the subject matter of any examination questions.

E. Do not leave the examination room except with the examination proctor's permission.

F. Smoking is not allowed in the building or examination room.

G. Do not bring reference materials, briefcases, backpacks, or similar items into the examination room. Please leave these items at home or locked in your vehicle.

H. No food or beverages allowed in the testing room

THE DEPARTMENT WILL NOT BE RESPONSIBLE FOR THE LOSS OR THEFT OF ANY PROPERTY BROUGHT INTO THE EXAMINATION ROOM.

3. Time limits for the examination. You will have two (2) hours to complete the general examination and one (1) hour to complete each category examination.

4. While taking the examination:

A. Read all instructions carefully, and be sure you understand them. Ask questions about any instructions which are unclear.

B. Be sure to mark an answer for all questions, even the ones about which you may be unsure. There is no penalty for guessing, and your score is based upon the total number of questions you answer correctly.

C. For each question, select the BEST answer of the options listed. More than one choice may be partially correct, but for each question there will be only one best answer.

D. Mark your answers on the answer sheet provided. **Do not** mark on the examination sheets.

E. Scratch paper will be provided. Do not make stray marks on your answer sheet. You may wish to make a note, on the scratch paper, of the questions you wish to review before turning in your examination, or of questions that you wish to bring to the attention of the proctor. All scratch paper will be collected at the end of the exam.

5. Evaluation and question comments. Please note, on the scratch paper provided, any comments you may have about the examination process or any of the examination questions and bring them to the attention of the proctor when you turn in your examination(s). Your comments may help us to improve the examinations and the examination process.

Friendly Suggestions

1. Plan for arrival. If testing at a site other than the Department's Lakewood office, you will be provided in advance with information as to the day, date, and time of the examination and the location where it will be given. No matter where you take your examination, allow extra time to get to the examination site, find parking, and get to the proper examination room.

2. Dressing for the examination. Dress comfortably. Individuals have different temperature preferences and it is not possible to please everyone. It is recommended that you bring a sweater so that you can be comfortable in any event.

3. Visitors in the examination room. Visitors will not be permitted in the examination room. If you need to meet family members or other persons after the examination, you should arrange to meet in the lobby of the building. Examinees will not be allowed to visit with, or exchange messages with others during the examination.

What Happens After the QS or CO Examination?

1. Passing Percentage

The passing percentage is the percentage of questions on

the examination that must be correctly answered in order for you to pass. For the Pesticide Applicators' Act license examinations, a score of 70 percent or better represents a passing score regardless of the examination taken.

2. Examination Score Process and Report

Examinations are scored electronically. Generally, within two (2) weeks after the examination, score reports will be mailed to the examinee. Notification includes a compilation of the subject areas of questions missed on the examination. (See pg. 4, item No. 2. Examination content).

3. Re-examination Procedure

Applicants failing the general, any category, or subcategory examination must retake the failed examination(s) in order to become licensed. Applicants can re-examine any time after receiving their score report. Applicants may reapply to retake failed examinations as many times as they wish, but must pay the examination fee and possibly a testing fee for each testing session. Since these fees are subject to change, you should contact the Department's Lakewood office to find out the current fees.

4. Licenses

A person cannot act as a Qualified Supervisor or Certified Operator until he or she has passed the required tests and completed the licensing procedure.

If an applicant is seeking initial licensing, an application for license will be sent along with the examination score report. If the applicant is already licensed and is seeking to add a category, then a new license will be sent if a passing score has been made.

5. Expiration and renewals

Commercial applicators: Commercial applicator business licenses expire on January 1st of each year. Renewals should be submitted on or before this date. Renewals post-marked after the first working day of January and before February 1st, will be charged an additional late fee. After that, an applicator must apply for a new license. The annual license fee is \$350.00.

Limited Commercial and Public Applicator: Limited commercial and public applicator registrations expire on January 1st of each year. Re-application for those applying restricted use pesticides and those who choose to be

registered must be made prior to that date. **The registration fee is \$50.00.**

Qualified Supervisor and Certified Operator: Qualified Supervisor and Certified Operator licenses expire three (3) years from the licensee's birth date. **The renewal fee is \$100.00.**

In order to renew the license, the licensee must comply with the continuing education requirements or re-examine. Renewals should be submitted before the expiration date. Renewals postmarked up to 30 days after the expiration date will be charged an additional late fee. If all continuing education credit requirements are not met, within 30 days after the expiration, an applicator must re-examine and apply for a new license. Any license that is not renewed on or before the expiration date may be reinstated within 180 days after the expiration date only if **all** renewal requirements must have been satisfied prior to the expiration date.

Private Applicator: Licenses expire three (3) years from the licensee's birth date. **The renewal fee is \$75.00**

Environmental Protection Agency (EPA) license, may not renew. The licensee must take the Colorado Department of Agriculture (CDA) examination.

In order to renew the CDA issued private applicator license, the license must comply with the continuing education requirements or re-examine. Renewals should be submitted before the expiration date. Renewals postmarked up to 30 days after the expiration date, will be charged an additional late fee. If all continuing education credits are not met, after 30 days an applicator must re-examine and apply for a new license. Any license that is not renewed on or before the expiration date may be reinstated within a 180 days after the expiration date only if **all** renewal requirements must have been satisfied as of the expiration date.

Certified operator and Private Applicator licenses issued based on reciprocity expires on the date the license, issued by the other jurisdiction, expires. Certified operator licenses issued because of reciprocity cannot be renewed by complying with continuing education requirements. Upon expiration of this license, the licensee can apply to renew based on reciprocity or by taking the Colorado examinations and satisfying all other requirements for licensure in Colorado.

What are some Study Materials and Suggested References?

For Qualified Supervisors and Certified Operators the following references are for your information. This is not a complete list. Some of the test questions will be based on field experience and knowledge of common practices; therefore, questions will not be limited to the reference materials listed below.

A. State Department of Agriculture Study Guides. The materials referenced for this group are available from the **State Forms Center, 4999 Oakland Street, Denver, Colorado 80239 Tel: (303) 370-2165 or Cooperative Extension Resource Center (CERC) Tel: (970) 491-6198.** There is a charge for each of the study guides. The study guides are provided for your convenience only. Not all material on the exams is found in the study guides, and not all material in the study guides is found on the exams.

Please refer to the price list/order form included with this guide for the complete list of study materials and their cost. The prices are subject to change, please call for current prices.

The CDA in cooperation with Colorado State University is in the process of revising and updating study guides for all categories. A list of revised study materials is included in this guide with current prices. To obtain the revised study guides contact: CSU Extension Resource Center, 115 General Services Building, Fort Collins, Colorado 80523-4061, or call (970) 491-6198. See order form near the back of this booklet.

B. Colorado State University Cooperative Extension has a number of Factsheets, guides, videotapes, and CD-ROMs that are excellent study and reference sources. The factsheets are generally 4 pages in length and sell for \$1.00 each. Factsheets can be downloaded from the internet for free at <http://www.ext.colostate.edu>. Guides range in price from \$9.00 up to around \$40.00. Videotapes are usually \$25.00 each and CD-ROMs are available for \$40.00 each. Following are some of the materials available. A full list of publications can be viewed and ordered from <http://www.ext.colostate.edu>. To obtain publications, contact **Cooperative Extension Resource Center, 115 General Services Building, Colorado State University, Fort Collins, CO 80523-4061**, or fax them at: (970) 491-2961. If you have questions, call them at (970) 491-6198 or toll free at 877-692-9358, or e-mail them at cerc@coop.ext.colostate.edu. Prices are subject to change.

Since the prices for these forms are subject to change, please contact the Cooperative Extension Resource Center or your local office for current prices.

NEW PUBLICATIONS

569A	\$4.75.	Houseplant Tips
570A	\$18.00.	Growing Peaches: A Guide for Western Colorado and the Rocky Mtn. Region
XCM205	\$9.00.	Colorado 2001 Weed Management Guide
XCM11	\$40.00. (for profit) \$25.00 (non-profit)	Production Agriculture CD-ROM, Putting Knowledge to Work
506A	\$40.00	Insects and Diseases of Woody Plants in the Central Rockies
550A	\$36.00	Colorado Grape Growers Guide
XCM38	\$14.50	Landscape & Nursery Insect Management Recommendation Guide for Turf Grass, Shade Trees and Shrubs
XCM147	\$35.00	Weeds of the West
XCM206	FREE	Pollution Prevention in Colorado Commercial Greenhouses (\$2.50 S&H)

CROPS

Production

MWPS45	\$17.00.	Conservation Tillage Systems and Management
XCM41	\$9.50	Colorado Tree Fruits
XCM41A	\$2.00	1999 Update: Colorado Tree Fruits
XCM176	FREE	BMP for Crop Pests
XCM177	FREE	BMP for Agricultural Pesticide Use
XCM178	FREE	BMP for Pesticide and Fertilizer

Storage and Handling

XCM195	FREE	BMP for Integrated Pest Management in the San Luis Valley
XCM196	FREE	BMP for Potato Production in the San Luis Valley
XCM205	\$9.00	Weed Management Guide
XCM213	\$5.20	Alfalfa Management Guide
547A	\$11.25	Colorado Onion Production and IPM
562A	\$10.30	Dry Bean Production and IPM
564A	\$24.00	High Plains Integrated Pest Management Guide for Colorado, Western Nebraska, Wyoming, Montana
0.558	\$1.00	Herbicide Formulations
0.559	\$1.00	Herbicide Surfactants and Adjuvants
0.562	\$1.00	Herbicide Behavior in Soils
0.563	\$1.00	Herbicide Selectivity and Performance
0.564	\$1.00	How Surfactants Work
0.706	\$1.00	Alfalfa: Weeds, Diseases and Insects
3.113	\$1.00	Weeds and Conservation Tillage

Diseases

XCM155	\$25.00.	(Video) New Technology for Old Problems - Bacterial Diseases of Potatoes
2.913	\$1.00	Bacterial Diseases of Beans
2.914	\$1.00	Coryneum Blight
2.918	\$1.00	White Mold of Dry Beans
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2.938	\$1.00	Root Rots of Dry Beans
2.940	\$1.00	Soil-Borne Diseases of Onion
2.941	\$1.00	Botrytis, Downy Mildew/Purple Blotch of Onion
2.943	\$1.00	Phytophthora Diseases of Vegetables

Irrigation

4.713 \$1.00 Applying Pesticides with Center-Pivot Irrigation

Soil and Fertilizer

0.513 \$1.00 Domestic Water Quality Criteria

FARM & RANCH

Equipment

MWPS37 \$17.00 Designing Facilities for Pesticide & Fertilizer Containment

5.003 \$1.00 Sprayer Calibration Fundamentals

Safety

5.020 \$1.00 Agricultural Respiratory Protective Equipment

5.021 \$1.00 Agricultural Pesticide Protective Equipment

GARDEN & YARD

Diseases

2.900 \$1.00 Necrotic Ring Spot in Turfgrass

2.901 \$1.00 Ascochyta Leaf Blight of Turf

2.902 \$1.00 Powdery Mildews

2.903 \$1.00 Nonchemical Disease Control

2.904 \$1.00 Juniper-Hawthorn Rust

2.907 \$1.00 Fire Blight

2.908 \$1.00 Fairy Ring in Turfgrass

2.909 \$1.00 Leaf Spot and Melting Out Diseases

2.910 \$1.00 Bacterial Wetwood

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2.926 \$1.00 Healthy Roots and Healthy Trees

2.928 \$1.00 Iron Chlorosis

2.930 \$1.00 Sycamore Anthracnose

2.931 \$1.00 Strawberry Diseases

2.932 \$1.00 Environmental Disorders of Woody Plants

2.933 \$1.00 Dollar Spot Disease of Turfgrass

2.937 \$1.00 Cytospora Canker

2.939 \$1.00 Honeylocust Diseases

2.942 \$1.00 Russian-Olive Decline and Gummosis

2.945 \$1.00 Friendly Pesticides for Home Gardens

2.946 \$1.00 Diseases of Roses in Colorado

2.947 \$1.00 Greenhouse Plant Viruses (TSWV/INSV)

2.948 \$1.00 Diseases and Insects of Pinyon Pine

2.949 \$1.00 Recognizing Tomato Problems

Fruits & Vegetables

550A \$36.00 Colorado Grape Growers' Guide

561A \$12.00 Growing Small Fruit

570A \$18.00 Growing Peaches

Trees & Shrubs

XCM150 \$14.00 Woody Landscape Plants for the High Plains

559A \$5.00 Aspen: Guide to Common Problems in Colorado

Yard

HG239 \$1.00 Weed Control in Lawns and Other Turf

XCM147 \$25.00 Weeds of the West

XCM205 \$9.00 1999 Colorado Weed Management Guide

521A \$12.00 Weeds of Colorado

3.100 \$1.00 Broadleaf Weed Control in Lawns

3.101 \$1.00 Grassy Weed Control in Lawns

7.232 \$1.00 Ornamental Grasses

INSECTS**Crops**

FB2148 \$1.00 Aphids On Leafy Vegetables

XCM113 \$25.00 Russian Wheat Aphid, Effects/Control
of the Russian Wheat Aphid.
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502A FREE Grasshoppers in Colorado

514A \$7.00 Field Identification of Adult
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Vegetable Crops in Colorado564A \$24.00 High Plains Integrated Pest
Management Guide

5.500 \$1.00 Alfalfa Weevil

5.503 \$1.00 Armyworms

5.508 \$1.00 Caterpillars on Field Crops: I

5.524 \$1.00 Blister Beetles in Forage Crops

5.531 \$1.00 Aphids in Alfalfa

5.535 \$1.00 Grasshoppers in Field Crops

5.545 \$1.00 Insect Damage to Grain

5.555 \$1.00 Spider Mites in Corn

5.561 \$1.00 Onion Thrips

5.564 \$1.00 Caterpillars on Field Crops: II

5.565 \$1.00 Caterpillars on Field Crops: III

5.568 \$1.00 Aphids in Small Grains

5.570 \$1.00 Western Corn Rootworm

5.575 \$1.00 Black Grass Bugs

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5.578 \$1.00 Mites in Wheat

5.585 \$1.00 Sunflower Stem Weevil Management

Home & GardenAIB673 \$2.00 How to Control House and Stable Flies
Without Using Pesticides

557A \$8.50 Household Insects of the Rocky Mtn. States

560A \$9.00 Turfgrass Insects in Colorado and
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5.501 \$1.00 Insect Pests of Home-Stored Foods

5.502 \$1.00 Flies in the Home

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5.589	\$1.00	Sunspiders
5.592	\$1.00	Flea Beetles
5.593	\$1.00	Colorado Ticks and Tick-Borne Diseases

Trees & Shrubs

XCM38	\$14.50	Management Recommendations for Turfgrass, Shade Trees and Shrubs
506A	\$40.00	Insects and Disease of Woody Plants of the Central Rockies (\$50 for 506A and XCM38)
5.506	\$1.00	Dutch Elm Disease
5.511	\$1.00	Aphids on Shade Trees & Ornamentals
5.513	\$1.00	Oystershell Scale
5.514	\$1.00	Scale Insects Affecting Conifers
5.519	\$1.00	Apple and Pear Insects
5.520	\$1.00	Stone Fruit Insects
5.521	\$1.00	Elm Leaf Beetles
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5.528	\$1.00	Mountain Pine Beetle
5.529	\$1.00	Pine Tip Moths
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5.548	\$1.00	Leafmining Insects
5.557	\$1.00	Insect and Mite Galls
5.560	\$1.00	Pear Slugs
5.566	\$1.00	Peach Tree Borer
5.567	\$1.00	Ponderosa Pine Budworm
5.571	\$1.00	Insect and Mite Pests of Honeylocust
5.579	\$1.00	Poplar Twiggall Fly
5.583	\$1.00	Tent-Making Caterpillars
5.586	\$1.00	Brownheaded Ash Sawfly
5.588	\$1.00	Conifer Seed Bugs
5.590	\$1.00	Cicadas
5.591	\$1.00	Zimmerman Pine Moths

LIVESTOCK

Health

0.551	\$1.00	Crop Residues for Livestock Feed
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NATURAL RESOURCES

Range

XCM147	\$35.00	Weeds of the West
XCM205	\$9.00	2000 Weed Management Guide

521A	\$12.00	Weeds of Colorado
3.102	\$1.00	Musk Thistle
3.105	\$1.00	Range and Pasture Weed Management
3.106	\$1.00	Weed Management for Small Rural Acreage
3.107	\$1.00	Leafy Spurge
3.108	\$1.00	Canada Thistle
3.110	\$1.00	Diffuse and Spotted Knapweed
3.111	\$1.00	Russian Knapweed

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6.400	\$1.00	Chemical Treatment of Ponds
6.401	\$1.00	Managing Warmwater Ponds
6.402	\$1.00	Controlling Aquatic Vegetation
6.500	\$1.00	Coping With Skunks
6.501	\$1.00	Coping With Snakes
6.505	\$1.00	Managing Wyoming Ground Squirrels
6.506	\$1.00	Managing Prairie Dogs
6.507	\$1.00	Managing Voles
6.515	\$1.00	Managing Pocket Gophers
6.516	\$1.00	Woodpeckers
6.519	\$1.00	Managing Bear Damage to Beehives
6.520	\$1.00	Preventing Deer Damage

CD-ROM

All CD-ROM prices are: Non-profit \$25, Profit \$40

XCD08	The Lawn Problem Solver
XCD09	Dry Bean Production & IPM
XCD10	Onion Production and IPM
XCD11	Put Knowledge to Work: Home and Garden

C. The materials referenced in the following group are good general study books or manuals that will provide much needed information to help you prepare for examinations. They can also make excellent references for your office library.

1. **The Standard Pesticide User's Guide.** (5th Ed.) Dr. Bert L. Bohmont. (Colorado State University Professor Emeritus) Prentice-Hall, Inc. New Jersey. This book is available from most book stores by special order or from Bohmont Enterprises, Inc., P.O. Box 2165, Fort Collins, Co. 80522.

2. **Destructive and Useful Insects: Their Habits and Control.** (5th Ed.). Robert L. Metcalf and Robert A. Metcalf. McGraw-Hill, Inc. New York. This book is available from most book stores by special order.

3. **An Introduction to the Study of Insects.** (6th Ed.). D. J. Borror, C. A. Triplehorn and N. F. Johnson. Saunders College Pub., Philadelphia, PA.

4. **Plant Pathology.** (3rd Ed.). George N. Agrios. Academic Press, Inc. New York. This book is available from most book stores by special order.

5. **Applied Weed Science.** Merrill A. Ross and Carole A. Lembi. Prentice-Hall, Inc. New Jersey. This book is available from most book stores by special order.

6. **The Pesticide Book.** George Ware. Thompson Pub., P.O. Box 9335, Fresno, CA 93791.

7. **Handbook of Pest Control.** Arnold Mallis. Franzak & Foster Co. Cleveland, OH.

8. **Pests of the West.** Whitney Cranshaw. Fulcrum Pub., 350 Indian St., Suite 350, Golden, CO 80401.

9. **Weeds of the West.** Thomas D. Whitson, ed. The Western Society of Weed Science.

10. **Weeds and Poisonous Plants of Wyoming and Utah.** Wyoming Cooperative Extension and Utah State University. CSU Research Report 116.

11. **Aspen: A Guide to Common Problems in Colorado.** CSU and Colorado State Forest Service.

12. **Diseases of Trees in the Great Plains.** USDA General Technical Report RM-129.

13. **Westcott's Plant Disease Handbook.** R. Kenneth Horst. Van Nostrand Reinhold, New York.

14. **Truman's Scientific Guide to Pest Control Operations.** Bennett, Owens, and Carrigan. A Purdue University/Edgell Communications Project.

15. **The Disease Compendium Series.** The American Phytopathological Society. Includes the following: Alfalfa Diseases; Apple and Pear Diseases; Barley Diseases; Beet Diseases and Insects; Corn

Diseases, 2nd ed.; Elm Diseases; Grape Diseases; Ornamental Foliage Plant Diseases; Pea Diseases; Potato Diseases; Rose Diseases; Sorghum Diseases; Soybean Diseases, 3rd ed.; Turfgrass Diseases; Wheat Diseases, 2nd ed.

16. **Handbook of Turfgrass Pests.** Ed. Rick L. Brandenburg and Michael G. Villani. Entomological Society of America, 9301 Annapolis Road, Lanham, MD 20706-3115, (301) 731-4535.

17. **Controlling Turfgrass Pests.** Malcolm C. Shurtleff, Thomas W. Fermanian, Roscoe Randell. A Reston Book, Prentice-Hall, Inc. Englewood Cliffs, NJ.

18. **Service Technician's Manual.** National Pest Control Association Resource Center, 8100 Oak Street, Dunn Loring, Virginia 22027

NEW STUDY GUIDES

TO ORDER: Cooperative Extension Resources Center
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Email: cerc@coop.ext.colostate.edu

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106 Forest Pest Control: \$25.00
109 Industrial Right of Way: \$20.00
110 Public Health Pest Control: \$25.00
206 Turf: \$25.00
207 Ornamental Pest Control: \$25.00
304 Residential/Commercial Pest control: \$25.00
307 Interior Plant Pest Control: \$15.00

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Colorado State University
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 (303) 239-4148

STUDY GUIDE TITLE	STOCK NUMBER	PRICE PER COPY	QUANTITY	\$ TOTAL
Pesticide Applicator Act & Associated Rules & Regulations	615-82-84-9990	No Charge		
AGRICULTURAL CATEGORY				
102 Plant Disease Control	615-82-84-1039	\$3.00		
103 Weeds	615-82-84-1054	\$3.00		
104 Seed Treatment	615-82-84-1070	\$3.00		
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**PRIVATE PESTICIDE APPLICATOR
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PA 676

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Each private applicator training manual and examination packet costs \$20.00 and includes a private applicator training manual, an examination, an examination answer form, a sample examination answer form, a licensure application form, and return instructions.

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The term "private applicator" means a certified applicator who uses or supervises the use of restricted use pesticides for the purpose of producing an agricultural commodity on property owned or leased by the applicator or the applicator's employer, or, if applied without compensation other than the trading of personal services between producers of agricultural commodities, on the property of another person.

"Agricultural commodity" means any plant, or part thereof, or animal, or animal product, produced by a person (including farmers, ranchers, vineyardists, plant propagators, Christmas tree growers, aquaculturists, floriculturists, orchardists, foresters, or other comparable persons) primarily for sale, consumption, propagation, or other use by man or animals.

If you are making ANY pesticide application for hire or compensation, or include pesticide applications as a part of a service you provide, you must be licensed as a commercial applicator with the Colorado Department of Agriculture. Please call 303-239-4146 if you have any questions.

Signed _____ Date _____

Please return this form to:
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Private Pesticide Applicator Program
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Lakewood, CO 80215
303-239-4186 303-239-4165 (fax)

- CDA licensure fees do not include any convenience fees charged by the credit card company.
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The CDA requests that any person or entity conducting a private applicator precertification workshop provide the CDA the following information.

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Workshop sponsor _____

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Part 3.8(b) of the Rules state:

Examination security provisions: No applicant or licensee testing for a private applicator license, or person proctoring a private applicator test session, shall cause any examination question or answer to be disseminated to any person not employed by the Commissioner by any means whatsoever. No person other than the applicant or licensee may complete the private applicator examination form.

The CDA may periodically have department inspectors attend precertification workshops to ensure compliance with Rule 3.8 of the Pesticide Applicators' Act. If you are requesting training materials, but have not finalized the date of your workshop, please contact the CDA at 303-239-4178 prior to your precertification course to provide this information.

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HUERFANO COUNTY 401 Main St., Suite 101, Courthouse, Walsenburg, CO 81089-2045 huerfano@coop.ext.colostate.edu	(970) 723-4298	BENT COUNTY 1499 Ambassador Thompson Blvd., Las Animas, CO 81054-1736 bent@coop.ext.colostate.edu	(719) 456-0764
JACKSON COUNTY 312 5 th , Walden, CO 80480-1077, jackson@coop.ext.colostate.edu	(303) 271-6620	CHEYENNE COUNTY 425 S. 7th W. Cheyenne Wells, CO 80810-0395 cheyenne@coop.ext.colostate.edu	(719) 767-5716
JEFFERSON COUNTY 15200 West 6 th Ave., #C, Golden, CO 80401-5018 jefferso@coop.ext.colostate.edu	(970) 247-4355	CROWLEY COUNTY 601 N. Main St., Courthouse Annex, Ordway, CO 81063 crowley@coop.ext.colostate.edu	(719) 267-4741--x 7
LA PLATA COUNTY 2500 Main, Durango, CO 81302-2607, laplata@coop.ext.colostate.edu	(970) 498-6000	KIOWA COUNTY County Courthouse, 1305 Godd, Eads, CO 81036-0097 kiowa@coop.ext.colostate.edu	(719) 438-5321
LARIMER COUNTY 1525 Blue Spruce Dr., Fort Collins, CO 80524-2004 larimer@coop.ext.colostate.edu	(719) 846-6881	OTERO COUNTY 411 N. 10th St., Rocky Ford, CO 81067-0190, otero@coop.ext.colostate.edu	(719) 254-7608
LAS ANIMAS COUNTY 200 E. 1st St., Room 101, Courthouse, Trinidad, CO 81082-3000 lasanima@coop.ext.colostate.edu	(719) 743-2542	SAN LUIS VALLEY AREA Alamosa County 401 Santa Fe, Box 329, Alamosa, CO 801101-0329 alamosa@coop.ext.colostate.edu	(719) 589-2271
LINCOLN COUNTY 326 8th St., Courthouse Annex, Hugo, CO 80821 lincoln@coop.ext.colostate.edu	(970) 522-3200 (970) 824-9180	Conejos County 17705 State Hwy 285, La Jara, CO 81140-9427 conejos@coop.ext.colostate.edu	(719) 274-5200
LOGAN COUNTY 508 S. 10th Ave., Suite 1, Sterling, CO 80751-3408, logan@coop.ext.colostate.edu	(970) 565-3123	Costilla County 401 Santa Fe, Box 329, Alamosa, CO 801101-0329 mineral@coop.ext.colostate.edu	(719) 589-2271
MOFFAT COUNTY 539 Barclay St., Craig, CO 81625-2733 moffat@coop.ext.colostate.edu	(970) 867-2493	Rio Grand and Saguache Counties 401 Santa Fe, Box 329, Alamosa, CO 801101-0329 OR 754-3494 or 0249 E. Road 9N, Center, CO 81125-9643	(719) 589-2271
MONTEZUMA COUNTY 109 W. Main St., Room 102, Cortez, CO 81321-3155 montezum@coop.ext.colostate.edu	(719) 836-4289	San Luis Valley Research Center (719) 754-3494	
MORGAN COUNTY 914 E. Railroad Ave., Ft. Morgan, CO 80701-0517 morgan@coop.ext.colostate.edu	(719) 583-6566		
PARK COUNTY 880 Bogue, Box 603, Fairplay, CO 80440-0603 park@coop.ext.colostate.edu	(970) 878-4093		
PUEBLO COUNTY 215 W. 10th St., Room 212, Courthouse, Pueblo, CO 81003-2992 pueblo@coop.ext.colostate.edu			
RIO BLANCO COUNTY 779 Sulphur Creed Rd, Box 270, Meeker, CO 81641-0270			