Recordkeeping for Herbicides

Fred Fishel
Pesticide Information Office and
Department of Agronomy
University of Florida/IFAS
Outline

• What’s new with the pesticide certification/recertification program
• Why recordkeeping is important
• Elements of recordkeeping
  – Restricted use pesticide records
  – Organo-auxin herbicide records
What’s New at the UF/IFAS Pesticide Information Office

• Online CEU courses
  – 60 courses now available
  – Most are for 1 CEU credit
  – Several for more than 1 CEU:
    • Aquatic (4 CEUs)
    • Natural Areas Weed Management (2 CEUs)
    • Core (4 CEUs)
Welcome to onlinepesticideceus.com
...a quality CEU option

You will now be getting your CEU certificates faster than before. Starting now, we will be emailing your recertification certificates to the email address you provide us. You can easily print your own certificate from your computer and save a digital copy for your records.

NEW

Our goal is to provide pesticide applicators and handlers a quality option for obtaining CEU credits. Our modules are all hosted online through the University of Florida. These modules contain quality information put together by University of Florida professors, with cooperation from the Florida Department of Agriculture and Consumer Services and the Georgia Department of Agriculture.

It's not always feasible to attend live CEU courses. While these are an invaluable resource, we are out to provide a quality alternative for applicators that are in need of some final CEU credits.

CEU Modules

Please feel free to browse our available CEU modules. Our modules have been sorted by approved category for convenient browsing. If you have any questions please refer to our Frequently Asked Questions, or Contact Us for assistance.

Remember, before starting any CEU course, be sure to "turn off pop-up blocker" in your browser such as Internet Explorer or Firefox. Please avoid using AOL because it is not compatible with our CEU modules.

Quality Training

Onlinepesticideceus website’s mission is to provide quality CEU training to applicators and handlers. We are a higher education entity that focuses on quality over quantity. We realize it’s often inconvenient to coordinate with live CEU meetings. Hopefully this will be an option for applicators to receive a quality education in the convenience of their own home.
http://pested.ifas.ufl.edu/onlinepesticideceus/
http://pested.ifas.ufl.edu/onlinestudyceus/
http://pested.ifas.ufl.edu/onlinepesticideceus/
Online License Renewal

https://aesecomm.freshfromflorida.com/
Online License Renewal
https://aesecom.freshfromflorida.com/
Online License Renewal

https://aeseecomm.freshfromflorida.com/
Online Certification Exams

EXAM APPLICATION FOR PUBLIC PESTICIDE APPLICATOR
Section 487.046(1), F.S., and Rule 5E-9.026 F.A.C.

Applicant must be 18 years of age or older to apply. Provide the details below. Fields marked with red asterisk are required. (Date Format: mm/dd/yyyy, Phone Format: 999-999-9999)

Examination Purpose
- New License
- Renewal
- Add a Category
- If exists, License:

Applicant Information
First Name: 
Middle Name: 
Last Name: *
Suffix: 
Date of Birth: *
Place of Employment: 
Title: 
Florida Resident: *
Email: *
Business Email: 
Yes
No
weeddr@ufl.edu
Either home phone or cell phone is required. Format: 999-999-9999.
Home Phone: 
Cell Phone: 
Business Phone: 
Fax Number:

Address Information
Home (Physical) Address: 
Line 2: 
Home City: *
State: * 
Zip Code: *
Mailing (if different): 
Line 2: 
Mailing City: 
State: * 
Zip Code: *
Business Address: 
Line 2: 
Business City: 
State: 
Zip Code:

Clear 
Next
Scheduling Florida Pesticide Certification Exams

Check for the examination schedules and seat availability from the UF/IFAS Extension Testing Center pages.

Voucher Number

Exam Taker Last Name

Schedule examination

- View your previous exam registration and participation records
- Learn about the exam policies
1. Verify personal info.

2. Schedule exam.

https://pesticideexam.ifas.ufl.edu/
Scheduling Florida Pesticide Certification Exams

Name: PIGG, PORKY  
Voucher Number: 401  
Examination: General Standards Core Exam

<table>
<thead>
<tr>
<th>County</th>
<th>Testing Center</th>
<th>Address</th>
<th>View Test Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duval</td>
<td>Duval Testing Center</td>
<td>1010 N McDuff Avenue, Jacksonville, FL 32254-2063</td>
<td>View Test Schedule</td>
</tr>
<tr>
<td>Hendry</td>
<td>Hendry Testing Center</td>
<td>1083 Pratt Blvd., Labelle, FL 33975-0068</td>
<td>View Test Schedule</td>
</tr>
<tr>
<td>Palm beach</td>
<td>Palm Beach Testing Center</td>
<td>559 N Military Trail, West Palm Beach, FL 33415-1311</td>
<td>View Test Schedule</td>
</tr>
<tr>
<td>Palm beach</td>
<td>Belle Glade</td>
<td>2978 SR 15, Belle Glade, FL 33430</td>
<td>View Test Schedule</td>
</tr>
</tbody>
</table>
Select date and register.

https://pesticideexam.ifas.ufl.edu/
Print and bring this page to the exam site.

Receipt is also emailed.
Online Certification Exams

- Currently in use at:
  - Palm Beach Co.
  - Hendry Co.
  - Duval Co.
- The system instantly provides exam results
- The overall goal is efficiency
Recordkeeping

- Recordkeeping requirements for *restricted use pesticides* became law May, 1995
- Enforced by FDACS

**Restricted Use Pesticide**

Due to high acute inhalation toxicity and carcinogenicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator’s certification.
Benefits of Recordkeeping

- Pesticide management
  - Keeps track of different treatments and results
  - Records analyze the effectiveness of past pesticide applications
  - Determines the best pesticide management program to deal with current problems
  - Provides a documentation system for determining restrictions

<table>
<thead>
<tr>
<th>Application Site</th>
<th>Days After Application</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Established Tree Crops</td>
</tr>
<tr>
<td>Ponds and Static Canals¹</td>
<td>7</td>
</tr>
<tr>
<td>Canals</td>
<td>7</td>
</tr>
<tr>
<td>Lakes and Reservoirs²</td>
<td>7</td>
</tr>
</tbody>
</table>
Benefits of Recordkeeping

• Food supply safety
  – Pesticide records can help to calm consumer fear regarding the safety of the food supply
Benefits of Recordkeeping

• Liability safeguard
  – Improper application:
    • Drift
    • Personal injury
    • Water-quality impairment
REQUEST:

Mr. contacted the Department to report that he was again experiencing a skin rash and breathing problems due to the alleged pesticide applications performed by    . He stated that it happens every year and he cannot use his yard from March to May due to the health problems caused by the applications.

Conduct an investigation and document any violations of the Florida Pesticide Law and Rules. Obtain full documentation of any violations that you find, including affidavits, samples, etc. as appropriate.

NOTE: Previous investigation occurred in April of 2012 (File no. 112-102-4101, Mr.  

Homestead, FL 33031

CROSS REFERENCE: Mr.  

REFERRED TO INSPECTOR: Llorente  

DATE: 3/13/2013
Benefits of Recordkeeping

• Re-registration assessment
  – Accurate pesticide-use information can assist the EPA in its risk-assessment process for pesticides undergoing re-registration
  – Recordkeeping can help in the process to preserve registrations for minor-use pesticides
Benefits of Recordkeeping

• Health management
  – The ability to provide information in the case of medical treatment benefits the applicator, workers, and medical personnel
10 Basic Recordkeeping Elements

- The name and the pesticide applicator license number of the licensee responsible for the pesticide application
- The name of the person who actually applied the pesticide
- The date, with start time and end time, of treatment
- The location of the treatment site, which may be recorded using any of the following example designations:
10 Basic Recordkeeping Elements

- The location of the treatment site:
  - County, range, township, and section
  - An identification system utilizing maps, GPS coordinates, and/or written descriptions that accurately identify the location of the treatment and distinguish the treatment site from other sites
  - The identification system established by the USDA found in 7 CFR 110, which utilizes maps and numbering systems to identify locations
  - The legal property description
10 Basic Recordkeeping Elements

- The crop, commodity, or type of target site treated
- The total size (in acres, square feet, acre-feet, or other appropriate units) of the treatment site
- The brand name and EPA registration number of the pesticide product applied
10 Basic Recordkeeping Elements

• The total amount (lbs., gal., etc.) of formulated product applied
• The application method
• The name of the person requesting or authorizing the application, or a statement of authority to make such application - if the application was made to property not owned or leased by the licensee
Recordkeeping

• Commercial applicators must, within 30 days of the application of a RUP, provide a copy of the application record to the person for whom the application was made.

• Recording repetitive information that applies to all records is not necessary, as long as the information is recorded one time and there is a written record indicating that this information applies to other applications as well.

• The required information must be recorded no later than 2 working days after the date of application, and may be incorporated into other business transaction records.

• Records must be retained for a period of 2 years.
Record Access

- Upon written request by FDACS representatives
- Licensed health-care professionals
Record Violations

• In the case of the first offense, applicators will be asked to correct their violation(s) and be subject to a civil penalty of not more than $500
FDACS recommends recordkeeping for all pesticide applications regulated by Chapter 487, F.S., using this form or similar format. When properly completed, this form meets the recordkeeping requirements for restricted use pesticides and the central posting requirements for the federal Worker Protection Standard.

<table>
<thead>
<tr>
<th>Date</th>
<th>Start Time</th>
<th>End Time</th>
<th>Actual applicator if different from above (include license no. if licensed)</th>
<th>Location/Description of Treatment Site</th>
<th>Total Size of Treatment Area</th>
<th>Pesticide Brand Name</th>
<th>Total Amt. of Pesticide Applied</th>
<th>Application Method</th>
<th>Restricted Entry Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>R/W</td>
<td>R/W</td>
<td>R/W</td>
<td>R/W</td>
<td>R/W</td>
<td>R/W</td>
<td>R/W</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>All</td>
<td>R/W</td>
<td>R/W</td>
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<td>R/W</td>
<td>R/W</td>
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</tr>
</tbody>
</table>
# Pesticide Application Recordkeeping Facts

FDACS recommends recordkeeping for **all** pesticide applications regulated by Chapter 487, F.S., using this form or similar format. When properly completed, this form meets restricted use pesticides and the Central Posting requirements for the federal Worker Protection Standard.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Florida Pesticide Law (Restricted Use Pesticide Licensed Applicators)</th>
<th>Worker Protection Standards (All Agricultural Use Pesticides)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Location</td>
<td>Applicator Records</td>
<td>Central Location</td>
</tr>
<tr>
<td>Recordkeeping Time</td>
<td>2 yrs after application date (Section 487.160)</td>
<td>30 days after the REI expiration time and/or application time (for pesticides without an REI) (Sections 170.122 &amp; 170.222)</td>
</tr>
</tbody>
</table>

## Other WPS Pesticide Application Record Timing Considerations for Central Location

If field warning signs are posted for a treated area **before** an application, the pesticide record application information for that application shall be posted at the same time or earlier. The information shall be posted **before** the application takes place, if workers will be on the establishment during application. Otherwise, the information shall be posted at the **beginning** of any worker’s first work period.

**Remember**

Use warning signs correctly, it’s the Law!

The signs shall be posted no sooner than **24 hours** before the scheduled application of the pesticide, remain posted throughout the application and any restricted entry interval. They must be removed within **3 days** after the end of the pesticide application, restricted-entry interval expiration time and before agricultural workers entry is permitted.

## Quick Spanish Translation of Pesticide Application Record Terms:

*(Definición en español de términos encontrados en el record de aplicación de pesticidas)*

<table>
<thead>
<tr>
<th>1. Fecha (R/W)</th>
<th>Nombre del aplicador actual si es diferente al mencionado arriba (incluya el número de licencia si aplica) (R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Hora de comienzo (R/W)</td>
<td>2. Lugar / Descripción del área tratada (R y W)</td>
</tr>
<tr>
<td>3. Hora final (R)</td>
<td>3. Cultivo Tratado (R)</td>
</tr>
<tr>
<td>4. Tamaño total del área tratada</td>
<td>4. Nombre del Pesticida (R &amp; W)</td>
</tr>
<tr>
<td>5. Núm de Registro de “EPA” (R y W)</td>
<td>5. Método de Aplicación (R)</td>
</tr>
<tr>
<td>6. Ingrediente(s) Activo (W)</td>
<td>6. Intervalo de entrada restringida (W)</td>
</tr>
</tbody>
</table>

**Claves:**

(R) - Requie para aplicadores certificados utilizando pesticidas de uno restringido agrícola.

(w) - Requisito bajo las Normas para la Protección al Trabajador Agrícola (Worker Protection Standard (WPS) en inglés)
Recordkeeping Software

• There are a million of them out there
  – Most target agricultural-type applications
• Began as very simple with minimal applications
• Complex software is available with lots of whistles and bells in addition to minimal needs

They are all designed for the overall goal of keeping you legal!
Organo-Auxin Records

- **Background**
  - Some organo-auxin herbicide formulations are highly volatile (2,4-D)
  - Susceptible crops (tomatoes, peppers, watermelons, eggplant, and ornamental broadleaf plants) very sensitive
  - Due largely to phenoxy herbicide applications on sugarcane and drift or volatilization and their subsequent destruction

Organo-Auxin Herbicide Rule
Organo-Auxin Herbicides

- 2,4-D
- 2,4,5-T
- Silvex
- MCPA
- 2,4-DP
- MCPB
- Dicamba
- Triclopyr
## Minimum Distance From Susceptible Crops

<table>
<thead>
<tr>
<th>Wind Speed (mph)</th>
<th>Ground Equipment*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 3</td>
<td>1/8 mile downwind</td>
</tr>
<tr>
<td></td>
<td>1/8 mile crosswind</td>
</tr>
<tr>
<td></td>
<td>20 feet upwind</td>
</tr>
<tr>
<td>3 – 6</td>
<td>¼ mile downwind</td>
</tr>
<tr>
<td></td>
<td>1/8 mile crosswind</td>
</tr>
<tr>
<td></td>
<td>5 feet upwind</td>
</tr>
<tr>
<td>6 – 10</td>
<td>½ mile downwind</td>
</tr>
<tr>
<td></td>
<td>¼ mile crosswind</td>
</tr>
<tr>
<td></td>
<td>5 feet upwind</td>
</tr>
<tr>
<td>&gt; 10</td>
<td>Prohibited</td>
</tr>
</tbody>
</table>

*Aerial applications are much more restrictive.*
Other Requirements

• Wind speed measurements taken:
  – at spray boom height
  – before spraying starts
  – once every hour during the operation

• A measurement consists of an average of 3 measurements taken within a 5-minute period

• Anemometer must be accurate to within ±10%
Other Requirements

• If treating more than 5 land or surface water acres per 24-hour period, maintain the following for 2 years:
  – Name and address of owner and applicator
  – Location of treatment and mixing/loading area
  – Description of application equipment used
  – Date and time of application
  – Trade name, manufacturer, formulation, total amount applied per acre and amount of ai applied per acre
Other Requirements

- If treating more than 5 land or surface water acres per 24-hour period, maintain the following for 2 years:
  - Total acreage and crop or site treated
  - Average hourly wind speed and direction
  - Nozzle type, including GPM rating at 40 PSI and angle of spray emission if applicable
Other Requirements

- If treating ditches, canals, or the banks of waterways, assure not treating water that will be directly used for irrigation of sensitive crops.
Florida Department of Agriculture & Consumer Services
Division of Agricultural Environmental Services

SUGGESTED PESTICIDE RECORDKEEPING FORM
for Organo-Auxin Herbicides

Chapter 487.05(1)(b), F.S. and 5E-2.035, F.A.C.

This is a suggested format for recording the information required for application of organo-auxin herbicides and plant growth regulators (general or restricted use) to a land or surface area greater than 5 cumulative acres with a 24-hour period. For a land or surface area less than 5 cumulative acres within a 24-hour period, only wind speed and direction readings are required.

Date Time Began Time Ended
Licensed Applicator License No.

Person making application (if not licensed)

Property owner or person authorizing treatment

Location of treatment area: County Field

Site Address

Location of mixing/loading site

Crop or site treated Acres treated

Brand name of product applied

Amount of product applied per acre Active Ingredient per acre

Nozzle type

Gallons per minute Angle of spray (if applicable)

WIND SPEED AND DIRECTION - Record hourly during application

Wind Speed (3 readings within 5 minutes)

<table>
<thead>
<tr>
<th>Time</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Average</th>
<th>Wind Direction</th>
</tr>
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<tbody>
<tr>
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DACS-13328, Rev. 9/06
Thanks for your attention!