

How to Obtain an Aldicarb Application Permit for Florida Cotton or Peanut¹

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The objectives of this publication are to guide growers, Extension agents, licensed applicators and other agricultural professionals through the process to obtain the permit required to legally apply aldicarb in Florida. As described in this publication, the label is the law, and this publication is not a substitute for state or federal law.

Pesticide application is a common tool for managing pests in agriculture production. Pesticides are subject to state and federal laws and regulations. Aldicarb is a pesticide that is subject to particular restrictions because of its highly toxic nature and concerns about groundwater contamination when aldicarb is not properly applied. Aldicarb is an insecticide/nematicide that is currently labeled only for cotton and peanut in Florida. AgLogic 15GG (gypsum formula) is the only product registered in Florida that contains aldicarb. It is manufactured by AgLogic Chemical Company LLC (Chapel Hill, NC). Aldicarb was also the active ingredient in Temik 15G, a product that is no longer registered but is still sometimes referenced in Florida's Department of Agriculture and Consumer Services (FDACS) materials. Aldicarb, as specified on the label, is a restricted-use pesticide, and therefore applicators must have a current and valid private or commercial Florida pesticide applicator's license with a row crop category designation. Additionally, applicators must obtain an aldicarb permit from FDACS before applying this product in Florida. Note that these requirements apply to out-of-state residents (i.e.,

people from Alabama or Georgia) who are farming land in Florida, but within the row crop category a valid Alabama or Georgia pesticide applicator's license can be used to apply for a Florida license without additional testing or CEU documentation. In recent years, there have been questions about applying for this free permit, therefore this publication is intended to guide growers through the process.

How and when to Obtain an Aldicarb Application Permit Form

Applicators can obtain a permit application from [this section](#) of the FDACS website. The application is site-specific; **one permit application** must be filled out for **every field** where aldicarb will be applied. The permit cannot be transferred from one applicator to another. Growers are also required to complete stewardship training (<https://www.aglogicchemical.com/stewardship>) before purchasing and applying aldicarb. Growers should complete the short stewardship certificate before applying for the aldicarb permit. The application can be completed **up to 6 months** before the product is applied. The permit is not valid beyond 6 months, so a new permit application must be submitted each year. **Growers are advised to submit for permits as early in the year as possible** in case unforeseen delays in permit processing occur. Aldicarb can only be applied after the permit is approved, but seeking permit approval does not obligate growers to use aldicarb, it merely

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provides permission to apply aldicarb at the specified site. Many permit approval delays are due to incomplete or inaccurate permit applications, so complete the permit application completely and accurately to help speed approval. Published FDACS permit processing times of 3–5 business days are only an estimate of processing times for an accurate application. That estimate does not include time for field site visits, which are being done by the aldicarb manufacturer. Improper application of aldicarb, such as applying aldicarb without a permit, is subject to a fine of \$10,000 per violation and restrictions on the pesticide applicator’s license.

Completing the Aldicarb Permit Application

The aldicarb permit application has sections on applicant information (Figure 1), aldicarb application site information, well information, and a section diagram of the application site. The applicant information section is relatively straightforward, but growers and applicators have had questions about the other sections in the past, so more detailed instructions for these sections follows. As described earlier, applicants must have a valid, current pesticide applicator license with a row crop designation and must provide the license number in the application. Florida pesticide applicator license details (category, license number, and expiration date) can be checked at [this website](#). Page 2 of the permit application provides instructions for completing the permit, although not all details may be current.

Providing Location Data in the Application

As shown in the Figure 2 screenshot, the “Site Information” section of the permit application asks for basic contact and location information. In particular, the township, range, and section for the application is requested. Be mindful of the order of this location information as this is a common error. Do not forget to select a crop (cotton and peanut are the only Florida crops currently labelled for aldicarb use), as this is another common error. Under “Field/Grove/Block,” list whatever name you call the field. Applicants must also mark all “¼ of ¼ sections” where aldicarb will be applied in the “Section Diagram” (Figure 3). In the past, growers have had questions about how to find township information for their application site. Your local county property appraiser’s office should be able to provide a map that includes this information. Many counties have these maps publicly available through their website (e.g. <https://srcpa.gov/Map>). In other counties, you may be able to request a physical map or obtain one by visiting the office in person. Free commercial online map tools are also available (e.g. randymajors.org).



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COMMISSIONER

Florida Department of Agriculture and Consumer Services
Division of Agricultural Environmental Services

APPLICATION FOR PERMIT TO APPLY ALDICARB (TEMIK)

Chapters 487.042 & 487.051, F.S., Rule 5E-2.028, F.A.C.
Telephone (850) 617-7870; Fax (850) 617-7895

Submit To:
Pesticide Certification Section
Attn: Temik Coordinator
3125 Conner Blvd., Bldg. 8 (L8)
Tallahassee, FL 32399-1650

Permit applications may also be submitted online at www.flpesticidepermits.org.

| Applicant Information | | | | |
|-----------------------------|--|-----------------|-------------------|-----------------------|
| Licensed Applicator's Name: | | | | |
| | Last | First | Middle | Suffix (Jr., etc.) |
| Mailing Address: | | | | |
| | Street | City | State | Zip Code |
| Business Phone: () | | Cell Phone: () | | Home Phone: () |
| License Type: | <input type="checkbox"/> Commercial <input type="checkbox"/> Public <input type="checkbox"/> Private | | License No. _____ | Expiration Date _____ |

Figure 1. The aldicarb application permit, including the “Applicant Information” section. Note that the website provided to submit application permits is NOT working, but a new website is in progress. As we mentioned above, the application for permit references Temik, but it applies to AgLogic 15GG, the currently registered aldicarb product. For questions about completing the aldicarb permit application, contact the FDACS Pesticide Certification Office at 850-617-7876 or tamara.james@fdacs.gov.

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What wells do I list on the application?

The “Site Information” section also requires that the number of drinking and non-drinking wells be listed (Figure 2) and that the GPS location of drinking wells associated with the site be listed in the “Drinking Well Information” section (Figure 3). Setback distances between where aldicarb is applied and the location of drinking wells are required to mitigate risk of human exposure to aldicarb. Well information is requested to ensure these regulations are being followed. There is no setback requirement for non-drinking wells (irrigation or any well not for human consumption) as long as the well is labelled as “NOT FOR HUMAN CONSUMPTION.” However, the total number of non-drinking wells *within the site where aldicarb will be applied* must be listed in the “Site Information” section.

| Site Information | | | |
|--|--------------|--------------------------|---|
| Contact (property owner/manager/caretaker, if different from applicator): _____ | | Phone: (_____) _____ | |
| Address: _____ | | | |
| Street | City | Zip Code | |
| Application Site County: _____ | | Field/Grove/Block: _____ | |
| Township: _____ | Range: _____ | Section: _____ | # Site Acres: _____ # Drinking Wells: _____ # Non-Drinking Wells: _____ |
| Crop: (check only one) <input type="checkbox"/> Citrus <input type="checkbox"/> Cotton <input type="checkbox"/> Peanuts <input type="checkbox"/> Potatoes <input type="checkbox"/> Pecans <input type="checkbox"/> Sorghum <input type="checkbox"/> Soybeans | | | |

Figure 2. The “Site Information” section of the aldicarb permit. Applicators sometimes have questions about the location and drinking well sections.

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| Drinking Well Information | | | |
|--|-----------|------------|------------------------------|
| Complete the table below for all drinking wells that determine application setbacks. See back of form for more information. Until July 1, 2007, if latitude and longitude coordinates are not available, write in or attach a written description of each well location. | | | |
| Drinking Well Information Table | | | |
| Entry # | Latitude* | Longitude* | Approved Setback (FDACS Use) |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| *In decimal degrees to 5 decimal places (required as of July 1, 2007). | | | |

| Section Diagram (required as of July 1, 2007) | | | |
|--|--|--|----|
| Complete the section diagram below by putting an “X” in all 1/4 of 1/4 sections in which any part of the application site is situated. | | | |
| NW | | | NE |
| SW | | | SE |

Figure 3. Sections of the aldicarb permit on drinking well information and application site within the township section.

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Table 1. Setback distance requirements from drinking wells by crop, soil type, and application timing.

| Soil Type ^a | Crop | Application Timing | Setback from drinking wells ^b |
|------------------------|------------------|-----------------------------|--|
| Vulnerable | Cotton | At-plant or post-plant only | 700 feet |
| Vulnerable | Cotton | At-plant plus post-plant | 1000 feet |
| Vulnerable | Peanut | At-plant or post-plant only | 1100 feet |
| Non-vulnerable | Cotton or peanut | At-plant or post-plant only | 300 feet |

^a Vulnerable soil types are described in Table 2. Note that a site may be subject to only the 300-foot setback if it is confirmed that the water table is 30 feet or more below ground level, regardless of soil type.
^b Note that officially documented drinking wells (wells that are officially documented to be cased 100 feet below the ground or 30 feet below the water table) are only subject to a 300-foot setback regardless of other conditions.

Table 2. Soil types present in Florida that are considered vulnerable and are subject to greater setback distances from aldicarb application as described in Table 1.^a

| | | | |
|------------|-------------|-----------|------------------|
| Adamsville | Eglin | Lake | Penney |
| Alaga | Florahome | Lakeland | Quartzipsamments |
| Alpin | Fort Meade | Neilhurst | Satellite |
| Archbold | Foxworth | Orlando | Tavares |
| Astatula | Gainesville | Orsino | Valdosta |
| Bigbee | Kershaw | Ortega | |
| Candler | Klej | Paola | |

^a Among typical Florida cotton or peanut producing areas, vulnerable soils are common in the Suwannee Valley but may be present elsewhere. Contact your local USDA Natural Resources and Conservation Service office for assistance with determining the soil type for a potential aldicarb application site or use the [USDA web soil survey](#).

Drinking wells must be listed and the GPS location provided **if they are within the application site (field) or closer than the specified setback distance from the edge of the field.** (If the drinking well was within the application site, you would have to forego aldicarb application around that part of the field.) **The setback distance is at least 300 feet but may be up to 1100 feet,** depending on the soil type and application methods. Setback scenarios at the time of publication are summarized in Table 1, but refer to the latest aldicarb product label for current setback information. Vulnerable soils are sandy with low organic matter, which increases leaching risk, and Table 2 provides a list of vulnerable soil types in Florida. **For assistance in determining the soil type at a potential aldicarb application site, contact your local USDA Natural Resources and Conservation Service office or use the [USDA web soil survey](#).** There are some exceptions to the greater setbacks on vulnerable soils for cased drinking wells that are officially documented and scenarios with deep water tables (see “DRINKING WELL INFORMATION” permit instructions and aldicarb product label). The licensed well contractor that installed the well and the water management district are two sources of well casing documentation. Particularly for older wells, this documentation may be difficult to obtain and it may be easier to assume the well is not cased. Note that aldicarb is only registered for cotton and peanut in Florida, although the application permit describes citrus setback scenarios. Again, list wells based on the setback requirements on the label rather than any examples from the application permit. For questions about

completing the application for permit and obtaining the aldicarb permit, contact the FDACS Pesticide Certification Office at 850-617-7876 or tamara.james@fdacs.gov. (Note that the contact information on the aldicarb permit application is NOT CURRENT at the time of publication.)

How do I submit the aldicarb permit application once completed?

Starting in 2022, all permits are going to be first reviewed for completeness by AgLogic Chemical Company representatives, and field sites will be visited to review details as needed. This is intended to speed up the review process. The applications will then be forwarded to FDACS for final assessment and approval. The application can be submitted online to applicationforpermit@aglogicchemical.com or tamara.james@fdacs.gov. Note that email is generally the faster method for approval, as hard copy mail is several days in transit. If submitting by mail, send to:

Pesticide Certification Section
 Attn: Aldicarb Permit Coordinator
 3125 Conner Blvd., Bldg. 8 (L8)
 Tallahassee, FL 32399-1650

Again, please note that the website to submit aldicarb permit applications listed on the FDACS form is NOT active at the time of publication. As previously discussed,

growers should submit the application for permit well in advance of when they plan to apply aldicarb.

Site Inspection and Permit Approval

As noted above, currently, AgLogic representatives will be making field site visits after permit submission, and a representative will contact the applicator to initiate this visit. The potential aldicarb application site may be also inspected by a FDACS representative. Aldicarb may be applied at the application site as soon as the permit application is approved. By law, growers must retain the aldicarb permit for two years after aldicarb application. Additional information on stewardship, equipment calibration, and use labels is available at <https://www.aglogicchemical.com/>.

Summary and Further Information

In summary, when intending to apply aldicarb to cotton or peanut in Florida, plan ahead to obtain the FDACS permit approval prior to applying aldicarb. Accurate completion of the aldicarb permit application will help ensure the approval process is as quick as possible. Obtaining this permit before applying aldicarb is important to help ensure good stewardship of our Florida water and environment as well as to avoid penalties.

Aldicarb is one of the tools available for Florida growers to manage plant-parasitic nematodes and insect pests in cotton and peanut. For more information on managing plant-parasitic nematodes, see the following UF/IFAS EDIS guides for [cotton](#) and [peanut](#). For more information on managing insect pests, see the following UF/IFAS EDIS guides for [cotton](#) and [peanut](#).

References

- Division of Agricultural Environmental Services. 2008. *Application for Permit to Apply Aldicarb (Temik)*. Document 13317. Florida Department of Agriculture and Consumer Services, Tallahassee, FL.
- Funderburk, J., N. Casuso, N. Leppla, and M. Donahue. 2016. "Insect and Mite Integrated Pest Management in Florida Cotton." ENY-886/IN1111. *EDIS* 2016. <https://edis.ifas.ufl.edu/publication/IN1111>
- Grabau, Z. J. 2021. "Management of Plant-parasitic Nematodes in Florida Cotton Production." ENY-004/NG015. *EDIS* 2017 (2): 8. doi.org/10.32473/edis-ng015-2017

Grabau, Z. J., and D. W. Dickson. 2021. "Management of Plant-parasitic Nematodes in Florida Peanut Production." ENY-069/IN1199. *EDIS* 2021. <https://edis.ifas.ufl.edu/publication/IN1199>

Wright, D. L., B. Tillman, I. M. Small, J. A. Ferrell, and N. DuFault. 2021. "Management and Cultural Practices for Peanuts." SS-AGR-74/AA258. *EDIS* 2021. <https://edis.ifas.ufl.edu/publication/AA258>