

# PESTICIDE PRODUCT REGISTRATION OVERVIEW

**SARAH K CAFFERY**

OFFICE OF INDIANA STATE CHEMIST

PESTICIDE PRODUCT REGISTRATION  
MANAGER



**TEAM**



**REGISTRATION  
TYPES**



**TIMELINES**



**TRENDS**



**PROJECTS**

# TEAM



## Office Staff

- L.E. Bradford
- Julia Whetstone
- Tory Fickle
- Sarah Caffery

## Field Staff

- Garret Creason

## REGISTRATION TYPES



Section 3

25(b)

Device

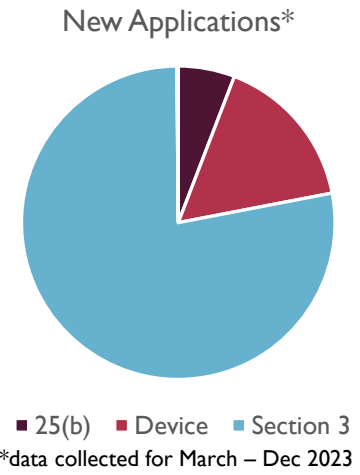
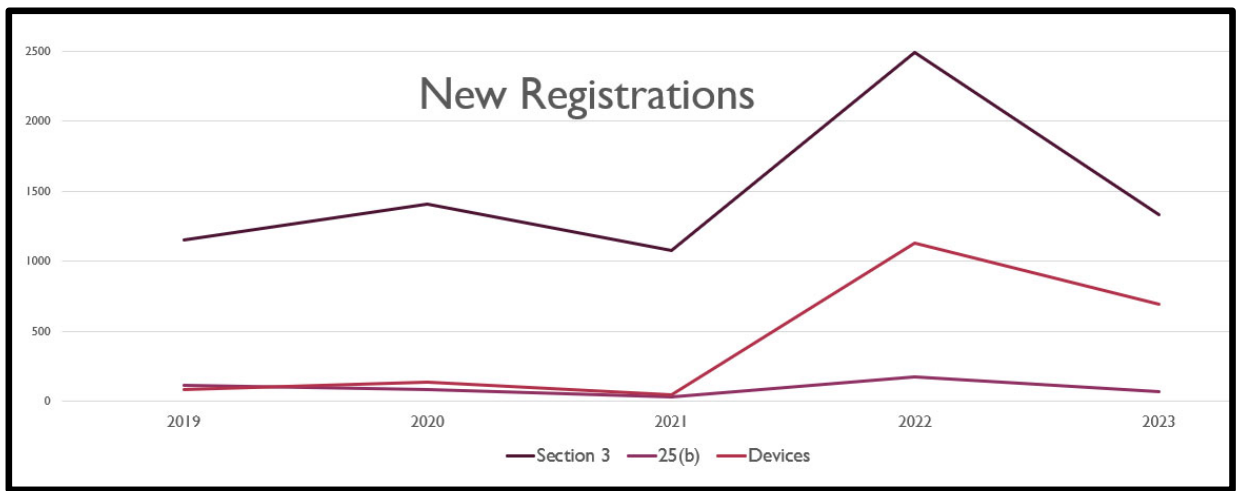
24(c)

Section  
18

EUP



# TIMELINES – NEW REGISTRATIONS



**Prior To COVID:**  
Section 3: 3-6 months  
Device & 25(b): 9-12 months

**2022:**  
Section 3: 2-4 months  
Device & 25(b): 6-9 months

**2023:**  
Section 3: 1-3 months  
25(b): 2-4 months  
Devices: 4-6 months

# APPLICATION TRACKER – STARTED MARCH '23



Product Registration

Application Tracker 2.0 ★ ⌚

Title ▾

EntryDate ▾

AccountID ▾

NameAddress ▾

PaidAmount ▾

Reviewer ▾

Application Status ▾

Product Type ▾

Review Started ▾

Deadline ▾

Finalized ▾

Package Revisi... ▾

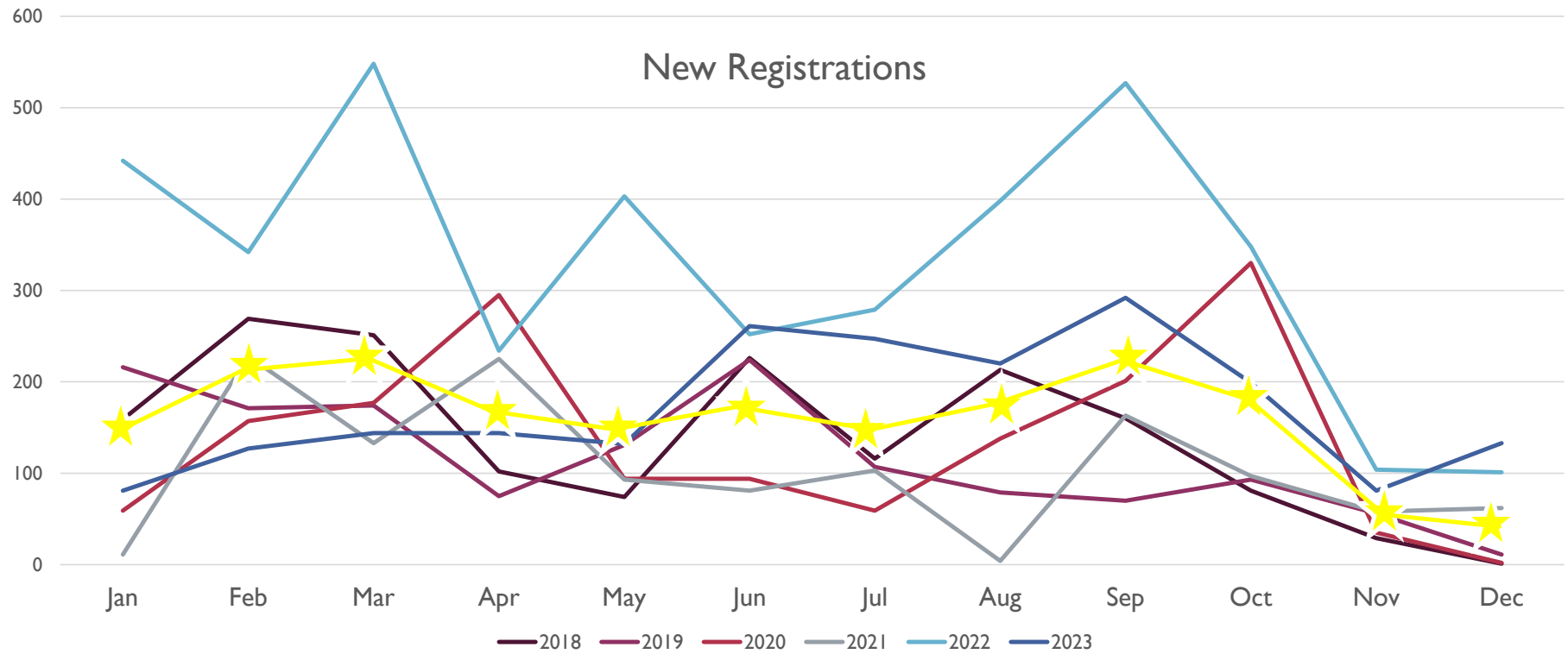
SSURO/AO/Case ▾

Notes ▾

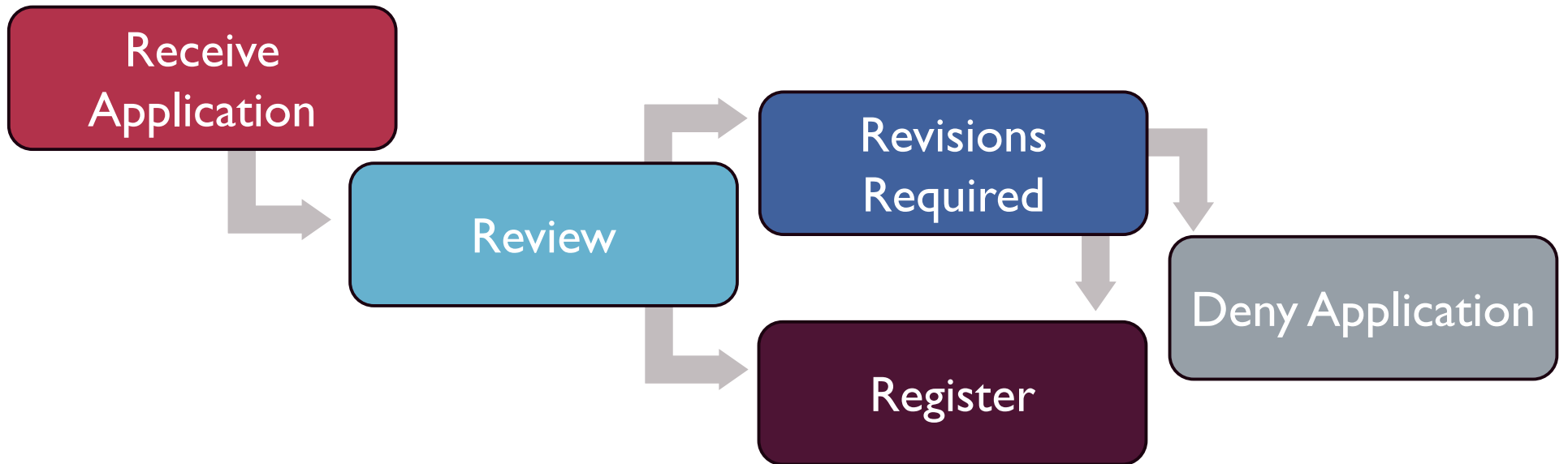
NRF Notes ▾

NRF Date ▾

# TRENDS – NEW REGISTRATIONS



# PRODUCT REGISTRATION PROCESS



## REGISTRATION TYPES – SECTION 3



### Section 3

- EPA Registered Pesticides
  - Basic Registrant (EPA Reg Number XXX-XX)
  - Supplemental Distributor (EPA Reg Number XXX-XX-XXX)
  - Kits & Co-packs (multiple products packaged & sold together)
  - Restricted Use Pesticides
  - Dual Products (Pest/Fertilizer)

### Review

Application Requirement: Marketplace Label

Review Includes:

- Federal Registration (PPLS)
- Federal Pesticide Regulations
- Marketplace Labeling vs Master Label



# SECTION 3 REVIEW PROCESS



Reviewer Information  
(Note to Agency: Text appearing in parenthesis is to optional text.)

**FAIRWAY II**

All Purpose Cleaner • Antibacterial • Bactericide • Bacterioid • (One-Step) Disinfectant • Disinfects • Degreaser • Deodorizer • Deodorant • Fungistat • Fungicide • Fungicidal • Germicide • Germicidal • Mildewstat • Multi-Surface • Multi-Purpose • (One-Step) Sanitizer • Virucide\* • Virucidal\*\* • Bathroom Cleaner • Kitchen Cleaner

**[SECTION 1: FORMULA]**

Active Ingredients:  
 n-Alkyl (60% C<sub>12</sub>, 30% C<sub>14</sub>, 5% C<sub>16</sub>, 5% C<sub>18</sub>) dimethyl benzyl ammonium chlorides ..... 0.11%  
 n-Alkyl (60% C<sub>12</sub>, 30% C<sub>14</sub>) dimethyl ethylbenzyl ammonium chlorides ..... 0.11%  
 Other (Inert) Ingredients ..... 99.78%  
 Total ..... 100.00%

**[SECTION 2: REFERENCE STATEMENTS]**

**ACCEPTED**  
 05/05/2020  
 (See Back Panel for Additional Precautionary Statements and Precautionary Statements.)  
 (See Inside Label or Panel for Additional Precautionary Statements.)  
 CAUTION (1)

See Back Panel for Additional Precautionary Statements.  
 (See Inside Label or Panel for Additional Precautionary Statements.)  
 (Please read all directions carefully before using this product.) (Use as directed.)

**[SECTION 6: MARKETING CLAIMS]**

[Note to Reviewer: "And" or "&" can be used interchangeable in the marketing sentences. All claims containing the word "new" will only be used for the first 6 months after the first retail production.]

**TABLE 1 – MARKETING EFFICACY CLAIMS**

- 2 in 1 (One-Step) (All Purpose) (insert locations – Table 3) (Antibacterial (Sanitizer) (&) (and) (Cleaner)
- (3-in-1) (4-in-1) (5-in-1) (All-Purpose Cleaner) (Cleaner); (cuts grease) (bacteria\*) (eliminates odor causing bacteria\*) (leaves a fresh, (clear) (germs) (removes stains) (brightens surfaces) (attacks soap scum) (pre) (mildew) (removes) (hard water stains) (toothpaste) (cosmetics) (urine)
- 10 Second Sanitization
- A (convenient) way to (clean up) (frequent) (tough) (messes) (and) (s)
- (A) (cleaner) (sanitizer) (for when you) (need) (require) (Antibacterial)
- (Add) (a) (an) (everyday) (sanitizing) (cleaning) (clean up) to your (c)
- A(n) (easy) way to (kill) (eliminate) (destroy) (sanitize) 99.9% of bac
- locations – Table 3)
- An (easy) way to (disinfect) (and) (sanitize) (and) (clean) (while) (eli
- (and) (grime)
- Antibacterial
- (Antibacterial) (disinfecting) (foam) (foaming) (action)
- All purpose (antibacterial) (daily) (insert locations – Table 3) (cleane
- An effective sanitizer for use in the (insert locations – Table 3).
- Antibacterial (insert locations – Table 3) cleaner

**[SECTION 3: DIRECTIONS FOR USE]**

(TO OPERATE:) (Rotate) (nozzle) to "ON" position and Spray (Turn nozzle to trigger to "ON".) (Choose Spray (open screen) or Foam (close screen)) (screen.) (To Foam, (flip) (open) screen)) (Rotate) (Turn) nozzle to FO (Turn nozzle (counter) (clockwise) to preferred usage (foam or spray).

**DIRECTIONS FOR USE:**  
 It is a violation of Federal law to use this product in a manner inconsistent with the following directions.

**TO CLEAN (GENERAL) (HOUSEHOLD(S)) (KITCHEN(S)) (BATHROOM(S)) (CLEANING) (DIRECTIONS):** Spray product onto soiled surfaces and wipe (V choice listed on page 2) (dry paper towel or lint free cloth). No scrubbing or rinsing necessary.

**TO SANITIZE (AND) (DEODORIZE) ON HARD, NON-POROUS SURFACES:** soiled surfaces. Spray until thoroughly wet. Let stand 10 seconds. Then wipe thoroughly.

**TO DISINFECT (AND) (DEODORIZE) (AND) (KILL FUNGI) ON HARD, NON-POROUS SURFACES:** Pre-clean heavily soiled surfaces. Spray until thoroughly wet. Let stand for 3 minutes. Then wipe.

**TO (CONTROL) (AND) INHIBIT MOLD AND MILDEW ON HARD, NON-POROUS SURFACES:** Spray until thoroughly wet. Allow surface to remain wet for 3 minutes. Then wipe. Re-apply at weekly intervals or when new growth appears.

**FOR FLOORS AND BIG JOBS:** Mix 1 cup (of this product) with 1 gallon of water. Apply with mop or sponge. Cleans all washable floors, including no-wax, linoleum, vinyl and glazed ceramic tile. Use full strength for tough grease stains. For spot cleaning floors, apply straight from bottle and wipe clean with damp sponge or mop.

**List of Material of Choices (may choose any combination and "dry" may proceed any choice; if more than one material is chosen an "and" or "or" may be used to complete sentence):**

- (a) (dry) (paper) (towel)
- (clean) (rag)
- (clean) (sponge)
- (lint-free) (microfiber) (or) (cleaning) (cloth)
- (napkin)
- (toilet) (paper)
- (facial) (tissue) (or) (toilet) (tissue)



\*\* Product label used as process example; not for the endorsement of product

## REGISTRATION TYPES – 25(B) MINIMUM RISK



### 25(b)

#### EPA Registration Exempt Pesticides

- Required to meet 6 Conditions
  - Active Ingredients
  - Inert Ingredients
  - Ingredients listed on Label
  - Can not make health-related claims
  - Company Name & Contact Information
  - Cannot include false or misleading statements

### Review

#### Application Requirements:

- Marketplace Labeling
- Statement of Formula
- Efficacy Data
- SDS

#### Review Includes:

- Application Documents
- 6 Federal Conditions
- AAPCO 25(b) Workgroup Guidance

## REGISTRATION TYPES – 25(B) MINIMUM RISK



### Device

#### EPA Registration Exempt Pesticide Product

- Labeling Requirements
  - EPA Establishment Number
  - Company name & contact information
  - Directions for Use
  - Precautionary Statements
  - No false or Misleading Claims

### Review

Application Requirement: Marketplace Label

Review Includes:

- Labeling Requirements
- Can Request Efficacy

## REVISIONS REQUIRED PROCESS



### Minor Revisions

- Current Marketplace labeling can be used
- Revisions required for next printing

Revisions  
Required

### Major Revisions

- Current Marketplace label cannot be used
- Revisions required prior to distribution

# REVISIONS REQUIRED PROCESS



2024 Pesticide Product Registration Pending: XXXXXXX

On XXXX we received a 2024 Indiana pesticide registration application with check #XXXX to register the following product(s):

Registrant Company	Brand/Product Name	EPA #

Revisions are required to the EPA Stamped Accepted Label and/or the marketplace label. While revisions are required, the current labeling can be utilized until the next printing of the label. Any revisions must be provided to OISC by the identified deadline.

#### To Move Forward With this Registration:

1. Review the label review below
2. Submit revisions for EPA SAL and/or marketplace label. We are aware of the time it takes to get a label revision accepted at EPA. We ask for proof of submission (CDX confirmation email/screenshot and copy of the revised label)
3. Submit revisions to OISC by XXXX

Product Name & EPA Reg No:

- Initial Review Email
- Prior to Deadline, Reminder Email

#### Please be advised:

According to the Indiana Pesticide Registration Law - IC 15-16-4-64, this serves as your written notification that the application provided fails to comply with the law and we are giving you, the registrant, an opportunity to make the necessary corrections. If the changes/requested confirmations are not received within 30 days of receipt of this notification, OISC may refuse to register the pesticide product. Therefore, if requested documents/revisions are not received within 30 days of receiving this email, the application will be processed as "unregistered" (the products will not be registered in Indiana).

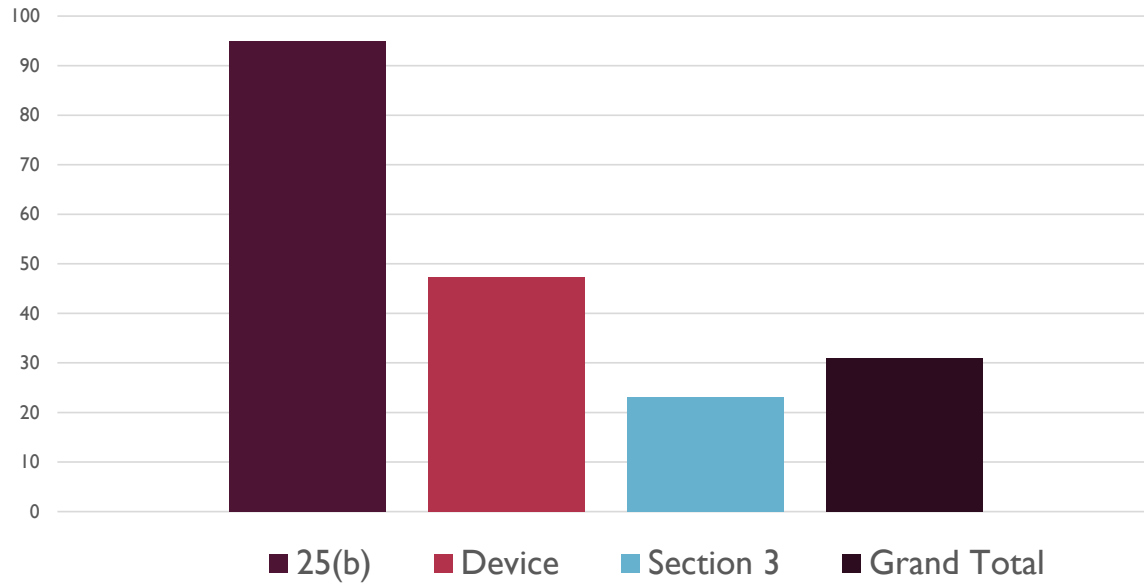
As provided by the Indiana Pesticide Registration Law - IC 15-16-4-57, IC 15-16-4-61 and IC 15-16-4-66 - it is unlawful for any person to distribute an unregistered pesticide product in the state of Indiana. Therefore, any unregistered pesticide products detected in the marketplace are subject to immediate STOP SALE, USE OR REMOVAL ORDER by our field investigators.

Please note that the \$170.00 Indiana registration application fee is non-refundable. If you have any questions, please feel free to contact our office at (765)496-7378.

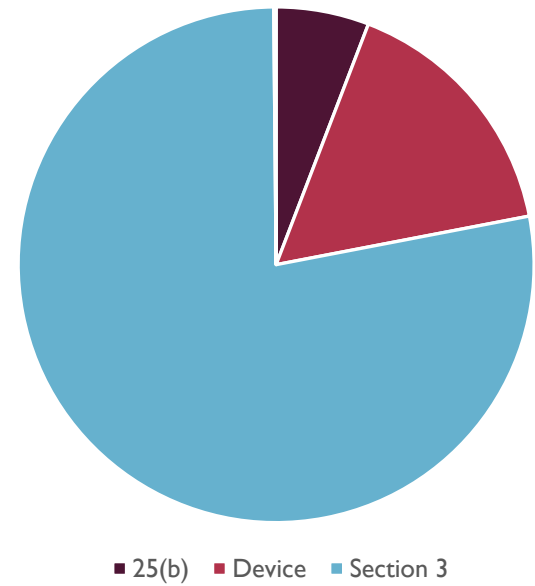
# TRENDS – NEW REGISTRATIONS



Percent of Applications Needing Corrections\*



New Applications\*



\*data collected for March – Dec 2023

# DENIAL PROCESS



## Deny Application

We are past the deadline for this pending application.

OISC provided you the opportunity to make necessary corrections, but the product(s) appear to remain non-compliant to date. Therefore, OISC is refusing to register the pesticide product(s). The \$170.00 per product Indiana application fee submitted with your application is non-refundable. If you intend to submit a new application for registration for the referenced product(s), please refer to the guidance provided at [http://www.oisc.purdue.edu/pesticide/pesticide\\_products.html](http://www.oisc.purdue.edu/pesticide/pesticide_products.html).

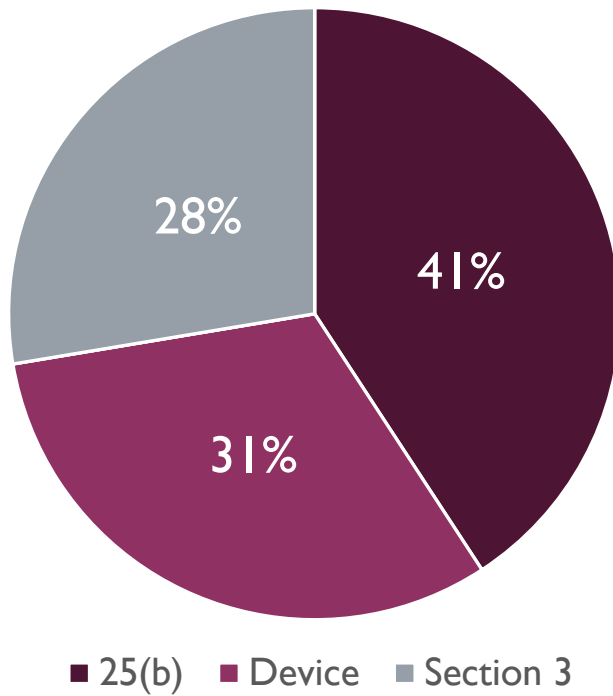
This is to advise you that the Indiana Pesticide Registration Law, specifically sections IC 15-16-4-57 and 66 state that it is unlawful for any person to distribute, display, sell, or offer to sell any unregistered pesticide product in the state of Indiana. Any non-compliant pesticide product detected in the Indiana channels of trade or distribution is subject to an immediate ACTION ORDER issued by OISC.

In addition, you are hereby advised that IC 15-16-4-64.5 provides that any person regulated under this chapter, who is aggrieved by any decision of the state chemist, may obtain a review by the Indiana Pesticide Review Board by filing a written request. To obtain a review, submit a written petition or request within **thirty (30) days** of your receipt of this letter to Board Secretary David Scott at [scottde@purdue.edu](mailto:scottde@purdue.edu) or Indiana Pesticide Review Board, 175 South University St., West Lafayette, IN 47097.

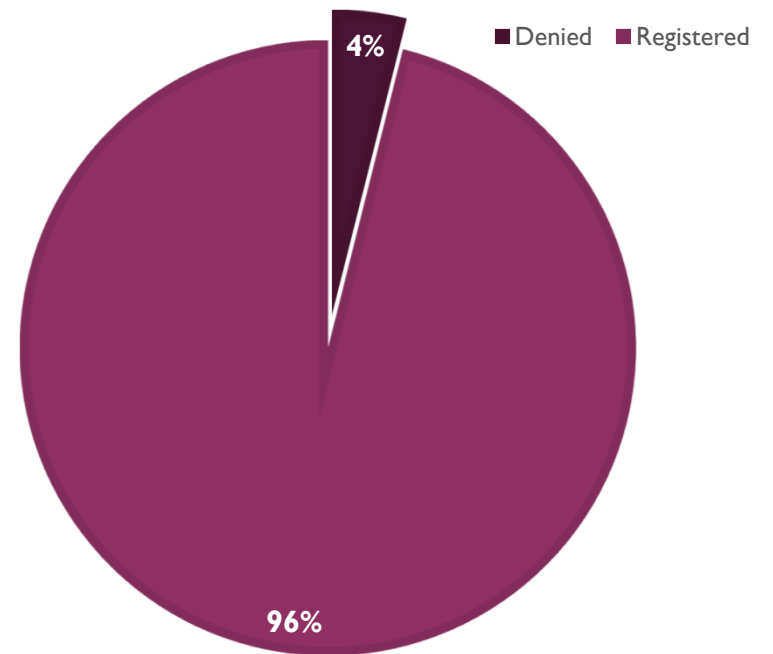
# TRENDS – DENIALS



## Denied Products



## PRODUCTS REVIEWED



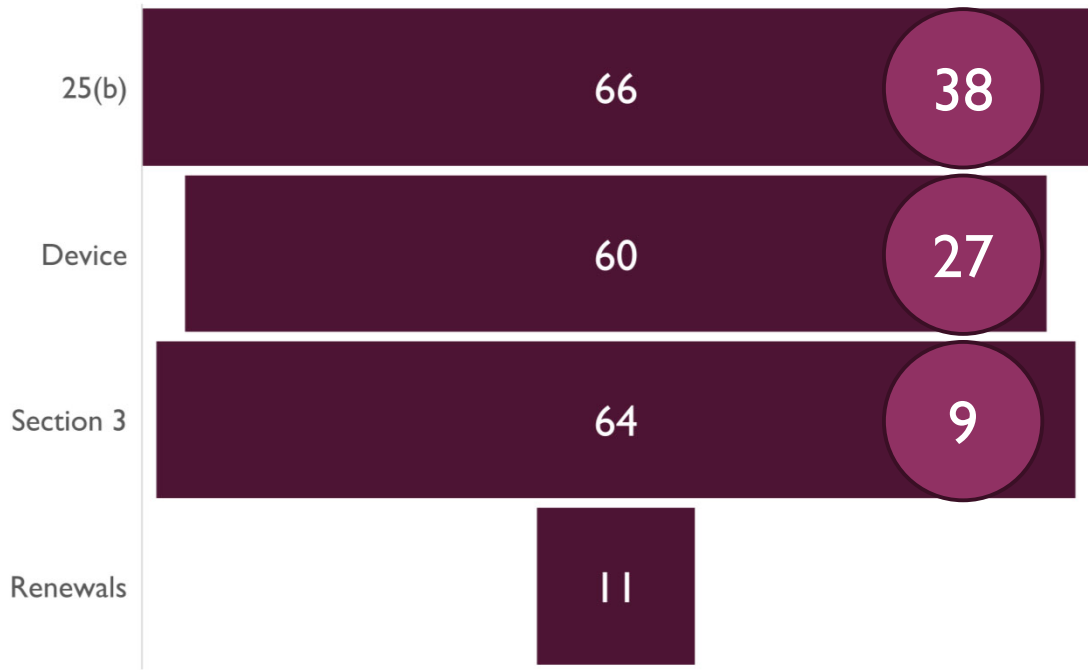
\*data collected for March – Dec 2023



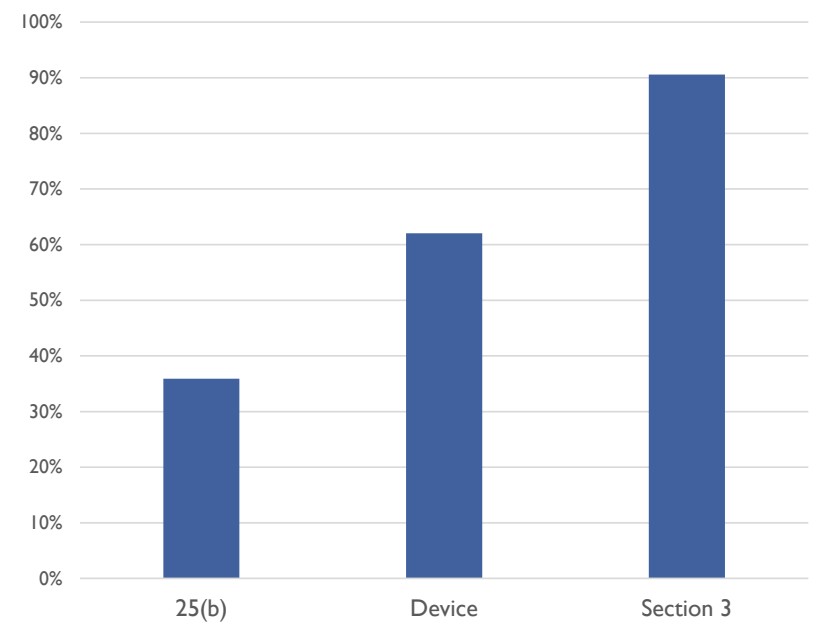
# TIMELINES – NEW REGISTRATIONS



Average Days (Received - Finalized)



Percent of Applications Review - Finalized in Under 31 days



\*data collected for March – Dec 2023

**CONTAINS MCPA, TRICLOPYR, DICAMBA, AND SULFENTRAZONE.**  
**FOR SELECTIVE WEED CONTROL IN ORNAMENTAL TURF, RESIDENTIAL, INDUSTRIAL AND INSTITUTIONAL LAWNS, PARKS, CEMETERIES, ATHLETIC FIELDS AND GOLF COURSES (ROUGH AND NATIVE AREAS), SOG FARMS, AND NON-CROPLAND SITES INCLUDING ROADSIDES, RIGHTS-OF-WAY, INDUSTRIAL AREA, RAILROADS AND FENCE ROWS**

ACTIVE INGREDIENTS	% by Weight
MCPA (Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid)*	23.78%
Triclopyr (Triethylamine Salt of 3,5,6-Trichloro-2-Pyridinyloxyacetic Acid)**	4.37%
Dicamba (Dimethylamine Salt of Dicamba (3,6-Dichloro-o-Anisic Acid)***)	3.49%
Sulfentrazone****	0.82%
<b>OTHER INGREDIENTS</b>	<b>67.54%</b>
<b>TOTAL</b>	<b>100.00%</b>

By Isomer Specific ADAC Method, Equivalent to:  
 \*MCPA (2-Methyl-4-Chlorophenoxyacetic Acid) 19.42%, 1.75 lb/gal  
 \*\*Triclopyr (3,5,6-Trichloro-2-Pyridinyloxyacetic Acid) 3.13%, 0.28 lb/gal  
 \*\*\*Dicamba (3,6-Dichloro-o-Anisic Acid) 3.09%, 0.27 lb/gal  
 \*\*\*\*Sulfentrazone 0.82%, 0.074 lb/gal

DO NOT SELL, DISTRIBUTE OR USE THIS PRODUCT IN NASSAU AND SUFFOLK COUNTIES IN NEW YORK.

**KEEP OUT OF REACH OF CHILDREN  
 DANGER - PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
 (If you do not understand the label, find someone to explain it to you in detail.)

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS

For Medical Emergencies, Call (877) 325-1840  
 For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9500

**FIRST AID**

- IF IN EYES:**
  - Hold eye open and rinse slowly and gently with water for 10-20 minutes.
  - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
  - Call a poison control center or doctor for treatment advice.
- IF SWALLOWED:**
  - Call a poison control center or doctor immediately for treatment advice.
  - Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to do so by the poison control center or doctor.
  - Do not give anything by mouth to an unconscious person.

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center (1-800-222-1222) or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.  
 NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Master Label

**CONTAINS MCPA, TRICLOPYR, DICAMBA, AND SULFENTRAZONE.**  
**FOR SELECTIVE WEED CONTROL IN ORNAMENTAL TURF, RESIDENTIAL, INDUSTRIAL AND INSTITUTIONAL LAWNS, PARKS, CEMETERIES, ATHLETIC FIELDS AND GOLF COURSES (ROUGH AND NATIVE AREAS), SOG FARMS, AND NON-CROPLAND SITES INCLUDING ROADSIDES, RIGHTS-OF-WAY, INDUSTRIAL AREA, RAILROADS AND FENCE ROWS**

ACTIVE INGREDIENTS	% by Weight
MCPA (Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid)*	23.78%
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Dicamba (Dimethylamine Salt of Dicamba (3,6-Dichloro-o-Anisic Acid)***)	3.49%
Sulfentrazone****	0.82%
<b>OTHER INGREDIENTS</b>	<b>67.54%</b>
<b>TOTAL</b>	<b>100.00%</b>

By Isomer Specific ADAC Method, Equivalent to:  
 \*MCPA (2-Methyl-4-Chlorophenoxyacetic Acid) 19.42%, 1.75 lb/gal  
 \*\*Triclopyr (3,5,6-Trichloro-2-Pyridinyloxyacetic Acid) 3.13%, 0.28 lb/gal  
 \*\*\*Dicamba (3,6-Dichloro-o-Anisic Acid) 3.09%, 0.27 lb/gal  
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For Medical Emergencies, Call (877) 325-1840  
 For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9500

Initial Label Received

**CONTAINS MCPA, TRICLOPYR, DICAMBA, AND SULFENTRAZONE.**  
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SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**FIRST AID**

- IF IN EYES:**
  - Hold eye open and rinse slowly and gently with water for 10-20 minutes.
  - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
  - Call a poison control center or doctor for treatment advice.
- IF SWALLOWED:**
  - Call a poison control center or doctor immediately for treatment advice.
  - Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to do so by the poison control center or doctor.
  - Do not give anything by mouth to an unconscious person.

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center (1-800-222-1222) or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

For Medical Emergencies, Call (877) 325-1840  
 For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9500

Revised Label Registered

**PRODUCT REGISTRATION  
 EXAMPLE**



4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Consult a physician or poison control center. Provide this safety data sheet to medical personnel. Move out of hazardous areas.

If inhaled

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

In case of skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed

Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed, if necessary

None known

registered.

**PRECAUTIONS:**

- Product may cause eye and skin irritation. Gloves and eye protection are recommended. Wash hands after use and before eating, smoking, touching face or eyes or using the toilet.
- Botanical oils are fragrant and may be objectionable to some people. If fragrance is problematic, seek fresh air. To diminish the fragrance, wash up with warm water and ventilate the area.
- Botanical oils can damage some plastics. Application to thin plastic and clear plastic is not recommended without test treating first.
- Do not apply to direct food contact surfaces. If product contacts food surfaces, wipe up with a damp cloth to remove.
- Do not apply directly to surface waters (lakes, streams, ponds).
- Not for use against microorganisms of public health concern.
- Staining is not anticipated on typical hard surface treatment areas. However, we recommend wiping up any product that gets on decorative surfaces.

**STORAGE AND DISPOSAL:**

**PRECAUTIONS:**

- Product may cause eye or skin irritation. Gloves and eye protection are recommended. If product gets in eyes, flush with water for at least 15 minutes. If on skin, wash with soap and water. If any irritation persists, or if more than an incidental amount is swallowed, seek medical attention and have this label with you.
- Botanical oils are fragrant and may be objectionable to some people. If fragrance is problematic, seek fresh air. To diminish the fragrance, wash up with warm water and ventilate the area.
- Botanical oils can damage some plastics. Application to thin plastic and clear plastic is not recommended without test treating first.
- Do not apply to direct food contact surfaces. If product contacts food surfaces, wipe up with a damp cloth to remove.
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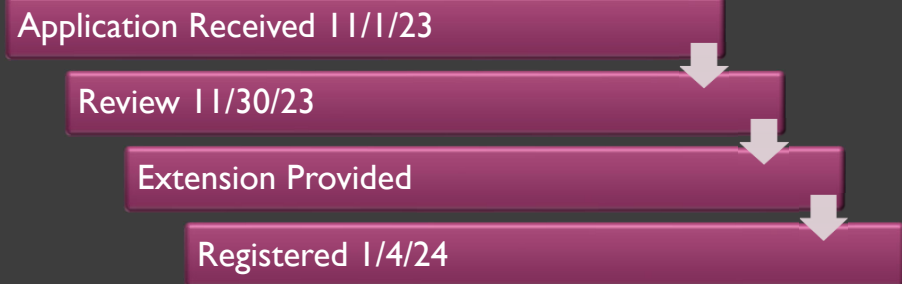
**STORAGE AND DISPOSAL:**

25(b) SDS

Initial Label Received

Revised Label Registered

# PRODUCT REGISTRATION EXAMPLE



# PRODUCT REGISTRATION EXAMPLE



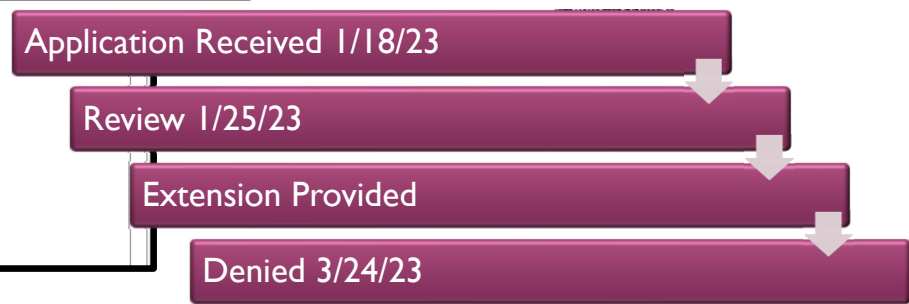
- a. Pestoffense Website:
- i. <https://pestoffense.com/product/the-original-pest-offense-usa/>
    1. Device is not EPA Registered
 

One PEST OFFENSE® unit will cover one level of an average size home. Multiple units will be needed in multi-level homes and buildings. PEST OFFENSE® is UL listed, FCC compliant and EPA registered.
    - a.
      2. Unqualified "safe" claims
 

PEST OFFENSE® is safe to use around humans, food, and most pets (it cannot be used around hamsters, gerbils, guinea pigs, chinchillas, and tarantulas). PEST OFFENSE® Includes a Luminary Panel on the front of the unit and has a 1 Year Warranty.
  - ii. <https://pestoffense.com/epa-news/> - OISC would recommend removing this site and/or direct consumers to beyondpesticide information, if they would like to review this opinion.
    1. Devices cannot make false or misleading claims. This includes comparison to other pesticides or devices. Some example claims would include:
 

**What are pesticides?**  
Pesticides are toxic chemicals used to kill insects (insecticides), weeds (herbicides), rodents (rodenticides), fungus (fungicides) and other pests. Pesticide products are formulations of a number of different toxic materials, including active and "inert" ingredients, as well as contaminants and impurities. In addition, pesticides, when subject to various environmental conditions, break down into other materials known as metabolites.
    - a. **What are the symptoms of pesticide poisoning?**
      - i. A pesticide, includes mitigating a pest – which would include repelling.
    2. Pesticide companies cannot say that their product is safe. See false or misleading claims below
 

Why do pesticide companies say their products are "safe"?



# PRODUCT REGISTRATION EXAMPLE

- Directions on the submitted label do not match the master label:

Master Label	Submitted Label
<p>Master label uses "proper" activation terminology; "manual activation" is only referenced under use for to disinfect drinking water supply for poultry, swine, cattle and other livestock.</p> <p><b>PROPER ACTIVATION OF OXINE®</b>  <b>MEASURE</b> out the desired volume of Oxine® concentrate into a clean vessel in a well ventilated area. <b>ADD</b> the required amount of activator acid, stir and allow to dissolve for five minutes for citric acid or two minutes for phosphoric acid. Avoid breathing any fumes that may be produced. After appropriate activation time, <b>DILUTE</b> with clean water to your desired final concentration.</p> <p>To disinfect drinking water supply for poultry, swine, cattle and other livestock:</p> <p>iii) <b>Manual Activation Method:</b> Activated Oxine® concentrate may be prepared by manual mixing and subsequent dilution for treatment of the water supply at 3 to 5 ppm according to the activation and dilution charts.</p> <p>For example, to manually prepare activated Oxine® to treat 1,000 gallons of water at 3 ppm activated Oxine®:</p> <ol style="list-style-type: none"> <li>Preparation of active solution: Place 20 fl. oz of Oxine® concentrate into a plastic container and add 60 grams of citric acid. Prepare in a well ventilated area. Avoid breathing any fumes while crystals are dissolving. Gently stir until citric acid crystals are completely dissolved. Allow five minutes reaction time.</li> <li>The activated concentrate may then be added to 1,000 gallons of water. Allow ten minutes before delivery to livestock water lines.</li> </ol>	<p><b>Manual activation:</b> Measure out the desired volume of Amplyfy concentrate into a clean vessel in a well-ventilated area. Add the required amount of activator acid, stir and allow to dissolve for five minutes for citric acid. Avoid breathing any fumes that may be produced. After appropriate activation time, dilute with clean water to your desired final concentration.</p>
<p>Alternative Activation directions differ from those found on the master label.</p> <p><b>Alternative Activation</b></p> <p>The active biocidal component of Oxine® system is free chlorine dioxide. Unactivated Oxine® in the neutral to mildly alkaline pH range is bacteriostatic. For higher level microbial control, such as disinfection and sanitation, activation of Oxine® is required to generate free chlorine dioxide. The use of citric acid as an activator is specified in most Oxine® label applications. Alternatives to citric acid for activation include organic acids, such as acetic acid, and inorganic acids such as phosphoric, hydrochloric, and sulfuric acids. Activation equivalent to that of citric acid may be achieved by adjusting the Oxine® solution to pH 2-3 with an alternative acid. The activated Oxine® is then diluted to the required use concentration in accordance with label instructions. For food processing applications only food grade activator acids may be used. Bio-Cide International, Inc or your Oxine® distributor can guide you in proper activation techniques.</p>	<p>Alternatives to citric acid for activation include organic acids, such as acetic acid, and inorganic acids such as phosphoric, hydrochloric, and sulfuric acids. Activation equivalent to that of citric acid may be achieved by adjusting the Amplyfy solution to pH 2-3 with an alternative acid. The activated Amplyfy is then diluted to the required use concentration in accordance with label instructions. For food processing applications only food grade activator acids may be used.</p>

- The following language/claim does not appear on the master label:

- o "Chlorine Dioxide Sanitizer"

Chlorine Dioxide Sanitizer

- The following graphic does not appear on the EPA master label:



Application Received 4/27/23

Review 7/3/23

Extension Provided

Registered 9/22/23

# PROJECTS



- Team Success
- 25(b) Audit
- Website Updates
- Cooperative Agreement Management
- ESA Impacts for Indiana
- Process Improvements
- Revised Label Review
- Collaborations



Feb 2024

- Finalizing Review

March 2024

- Provide Audit Review to Registrants

Sept 2024

- Non-Efficacy Revisions Due

Sept 2025

- Efficacy Due

## RESOURCES & QUESTIONS

- [https://oisc.purdue.edu/pesticide/pesticide\\_products.html](https://oisc.purdue.edu/pesticide/pesticide_products.html)
- <https://aapco.org/2015/07/02/fifra-25b-workgroup/>
- [pestproducts@groups.purdue.edu](mailto:pestproducts@groups.purdue.edu)

### **Sarah K Caffery**

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