



Office of  
**INDIANA STATE CHEMIST AND SEED COMMISSIONER**  
*Protecting Indiana's Agriculture and Environment - Feed, Fertilizer, Pesticide and Seed*

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**2020**  
**INDIANA PESTICIDE REGULATORY**  
**SUMMARY REPORT of ACTIVITIES**

**MISSION & STAFF:** The pesticide section of the Office of Indiana State Chemist (OISC) is charged with administration of the Indiana pesticide laws I.C. 15-16-4 and I.C.15-16-5 and represents the Environmental Protection Agency (US EPA) in Indiana for the purpose of enforcing federal pesticide law. The mission of OISC under these laws is to protect Indiana citizens and the environment from hazardous, ineffective and improperly formulated and labeled pesticide products and from unacceptable pesticide exposure. Twenty-seven full-time professional and support staff, plus an additional twelve shared OISC support staff are responsible for carrying out this mission.

**PRODUCT REGISTRATION:** In 2020, OISC registered 17,229 pesticide products in the state of Indiana, including registrations from 270 new registrants/manufacturers. To contrast, in 2018 there were only 24 new product registrants/manufacturers registering products in Indiana. Product registration numbers in 2020 included 1,650 new registrations, 22 FIFRA Sec. 24(c) registrations, 524 FIFRA Sec. 25(b) registrations, 713 device registrations, and one FIFRA Sec. 18 registration for a herbicide used in mint production. In an effort to assist registrants with challenges created by the COVID pandemic, OISC extended product registration deadlines and provided opportunities for one-year conditional registrations. OISC also collaborated with the Purdue University Cooperative Extension Service to provide an overview of the legal use of pesticides to hemp growers during applicator trainings. OISC continued to work cooperatively with the U.S. EPA and other State Lead Agencies to review and maintain and correct product registration databases and product labels. Adequate product registration and labeling are paramount to a safe, effective, and credible national pesticide regulatory program. In addition, OISC continued to chair the American Association of Pest Control Officials (AAPCO) FIFRA Sec. 25(b) Workgroup to develop consistent national standards for state registration of 25(b) pesticide products that are exempt from federal registration.

**APPLICATOR CERTIFICATION & CREDENTIALING:** OISC issued 29,485 pesticide credentials. This included licenses for 3,745 pesticide application businesses, 11,035 pesticide applicators, 3,642 pesticide technicians, 583 pesticide dealers, and 10,480 farmers using pesticides. With the assistance of the Purdue Cooperative Extension Service (CES) and industry representatives OISC upgraded and implemented the pesticide Core exam. In 2020, OISC reviewed and approved over 700 continuing certification training programs for pesticide applicators.

**COMPLIANCE & ENFORCEMENT:** In 2020 pesticide staff investigated 316 complaint cases and conducted 1465 routine compliance inspections. Previous five-year highs were 518 complaint investigations in 2017 and 1773 routine inspections in 2017. In 2020 OISC pesticide laboratories analyzed 936 environmental residue samples and 56 product integrity samples. The previous five-year high was 2577 environmental residue samples in 2017 and 107 product integrity samples in 2019. Complaint investigation sample numbers have increased significantly over the last three years due to the unprecedented increase in the complaints resulting from the adoption of dicamba tolerant crops and a corresponding increase of the use of dicamba herbicides on those crops. By comparison, OISC collected only 124 environmental residue samples in 2006. As in 2017 through 2019, the

most notable compliance issue during 2020 was agricultural drift, with 231 total (83 dicamba) drift complaints investigated. The number of dicamba drift complaints were reduced by approximately 50% from 2017 through 2019 levels as the result of the June 20<sup>th</sup> application restrictions implemented by OISC and the IPRB prior to the 2020 growing season.

**OUTREACH & COMPLIANCE ASSISTANCE:** During 2020, with financial support from U.S. EPA, OISC conducted a Pesticide Clean Sweep Project, collecting 37,558 pounds of hazardous waste pesticides from 231 Indiana applicators at minimal to no cost to the participants. This collection figure was second only to the previous all-time high in 2017 of 104,520 pounds of pesticide waste.

**INDIANA PESTICIDE REVIEW BOARD:** Created through IC 15-16-4-42 in 1971, this twenty-member board is appointed by the Governor to develop pesticide policy and regulations for the State of Indiana. Board members include scientists, government officials, university researchers, conservationists, industry representatives and a public representative. In 2020, the Board and OISC worked cooperatively and successfully to: 1) draft legislative revisions for successful enactment by the Indiana Legislature to overhaul and update pesticide civil penalty administration by OISC; 2) designate all agricultural dicamba products as Highly Volatile Herbicides to accommodate a June 20<sup>th</sup> application cutoff date and reduce the incidents of off-target movement; and 3) facilitate discussions for solutions to address aerial public health mosquito applications and protection of pollinators.

*Information as of 1-4-22*



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**2021**  
**INDIANA PESTICIDE REGULATORY**  
**SUMMARY REPORT of ACTIVITIES**

**MISSION & STAFF:** The pesticide section of the Office of Indiana State Chemist (OISC) is charged with administration of the Indiana pesticide laws I.C. 15-16-4 and I.C.15-16-5 and represents the Environmental Protection Agency (US EPA) in Indiana for the purpose of enforcing federal pesticide law. The mission of OISC under these laws is to protect Indiana citizens and the environment from hazardous, ineffective and improperly formulated and labeled pesticide products and from unacceptable pesticide exposure. Twenty-eight full-time professional and support staff, plus an additional thirteen shared OISC support staff are responsible for carrying out this mission.

**PRODUCT REGISTRATION:** In 2021, OISC registered 16,888 pesticide products in the state of Indiana, including registrations from 239 new registrants/manufacturers. To contrast, in 2018 there were only 24 new product registrants/manufacturers registering products in Indiana. Product registration numbers in 2020 included 1,320 new registrations, 21 FIFRA Sec. 24(c) registrations, 497 FIFRA Sec. 25(b) registrations, 671 device registrations, and no FIFRA Sec. 18 registrations. In an effort to assist registrants with challenges created by the COVID pandemic, OISC extended product registration deadlines and provided opportunities for one-year conditional registrations. OISC also collaborated with the Purdue University Cooperative Extension Service to provide an overview of the legal use of pesticides to hemp growers during applicator trainings. OISC continued to work cooperatively with the U.S. EPA and other State Lead Agencies to review and maintain and correct product registration databases and product labels. Adequate product registration and labeling are paramount to a safe, effective, and credible national pesticide regulatory program. In addition, OISC continued to chair the American Association of Pest Control Officials (AAPCO) FIFRA Sec. 25(b) Workgroup to develop consistent national standards for state registration of 25(b) pesticide products that are exempt from federal registration.

**APPLICATOR CERTIFICATION & CREDENTIALING:** OISC issued 29,914 pesticide credentials. This included licenses for 3,633 pesticide application businesses, 10,720 pesticide applicators, 3,872 pesticide technicians, 599 pesticide dealers, and 11,090 farmers using pesticides. OISC is working with Purdue Cooperative Extension Service (CES) and industry representatives to upgrade the commercial applicator aquatic pest management (category 5), the termite control (category 7B) and the wood destroying pest inspection (category 12) competency exams. In 2021, OISC reviewed and approved over 550 continuing certification training programs for pesticide applicators.

**COMPLIANCE & ENFORCEMENT:** In 2021 pesticide staff investigated 293 complaint cases and conducted 931 routine compliance inspections. Previous five-year highs were 518 complaint investigations in 2017 and 1773 routine inspections in 2017. In 2021 OISC pesticide laboratories analyzed 931 environmental residue samples and 49 product integrity samples. The previous five-year high was 2577 environmental residue samples in 2017 and 107 product integrity samples in 2019. Average complaint investigation sample numbers have increased significantly over the last five years due to the unprecedented increase in the complaints resulting from the adoption of dicamba tolerant crops and a corresponding

increase of the use of dicamba herbicides on those crops. By comparison, OISC collected only 124 environmental residue samples in 2006. As in 2017 through 2020, the most notable compliance issue during 2021 was agricultural drift, with 200 total (68 dicamba) drift complaints investigated. The number of dicamba drift complaints were reduced in 2020 and 2021 by approximately 50% from 2017 through 2019 levels as the result of the June 20<sup>th</sup> application restrictions implemented by OISC and the IPRB prior to the 2020 growing season.

**OUTREACH & COMPLIANCE ASSISTANCE:** During 2021, with financial support from U.S. EPA, OISC conducted a Pesticide Clean Sweep Project, collecting 59,211 pounds of hazardous waste pesticides from 189 Indiana applicators at minimal to no cost to the participants. This collection figure was second only to the previous all-time high in 2017 of 104,520 pounds of pesticide waste. Also, in 2022, OISC continued to support the FieldWatch/DriftWatch/BeeCheck pesticide sensitive crop and pollinator protection mapping registries through financial support of an on-staff data steward for Indiana. For the year, these registries recorded registered 85 commercial applicators, 363 producers, 907 sensitive fields/crops, 93,200 sensitive acres, 451 apiaries, and 1936 pollinator hives.

**INDIANA PESTICIDE REVIEW BOARD:** Created through IC 15-16-4-42 in 1971, this twenty-member board is appointed by the Governor to develop pesticide policy and regulations for the State of Indiana. Board members include scientists, government officials, university researchers, conservationists, industry representatives and a public representative. In 2020, the Board and OISC worked cooperatively and successfully to: 1) draft revisions to Indiana pesticide rules to accommodate recent revisions to the federal EPA applicator certification and training rules and to address other outdated provisions of current state rules; and 2) develop solutions to address the increasing incidents of off-target drift from mosquito adulticide insecticides applications to private property.

*Information as of 1-13-22*



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**2022**  
**INDIANA PESTICIDE REGULATORY SUMMARY**

**AGENCY HISTORY:** The Office of Indiana State Chemist (OISC) was established in 1881 by the Indiana General assembly to regulate the sale and distribution of fertilizer. It was located at Purdue University where chemical analysis on fertilizer products could be performed. Since then, OISC has been assigned no fewer than eleven different agricultural product-based laws and associated regulations to administer and enforce. These laws deal with product truth-in-labeling and distribution, and related user safety, food safety, and environmental safety. Regulated products and services include animal feed, pet-food, fertilizers, seed, plant inoculants, hemp, and pesticides. Details on OISC programs and services are available at <https://oisc.purdue.edu/index.html>.

**MISSION & STAFF:** The pesticide section of the Office of Indiana State Chemist (OISC) is charged with administration of the Indiana pesticide laws I.C. 15-16-4 and I.C.15-16-5 and represents the Environmental Protection Agency (US EPA) in Indiana for the purpose of enforcing federal pesticide law. The mission of OISC under these laws is to protect Indiana citizens and the environment from hazardous, ineffective and improperly formulated and labeled pesticide products and from unacceptable pesticide exposure. Thirty full-time professional, laboratory, investigation, and program staff, plus an additional thirteen shared IT, quality assurance, and accounting support staff are responsible for carrying out this mission. Details on OISC pesticide programs and services are available at <https://oisc.purdue.edu/pesticide/index.html>.

**PRODUCT REGISTRATION:** In 2022, OISC registered 19,373 pesticide products in the state of Indiana. Product registration numbers in 2022 included 3,799 new registrations, which included 2 FIFRA Sec. 24(c) registrations, 171 FIFRA Sec. 25(b) registrations, 1,130 device registrations, 82 Restricted Use Pesticides, and no FIFRA Sec. 18 registrations. OISC continued to work cooperatively with the U.S. EPA and other State Lead Agencies to review, maintain, and correct product registration databases and product labels. Adequate product registration and labeling are paramount to a safe, effective, and credible national pesticide regulatory program.

**APPLICATOR CERTIFICATION & CREDENTIALING:** OISC issued 29,736 pesticide credentials. This included licenses for 3,577 pesticide application businesses, 10,592 pesticide applicators, 3,945 pesticide technicians, 562 pesticide dealers, and 10,205 farmers using pesticides. OISC worked with Purdue Cooperative Extension Service (CES) and industry representatives to upgrade the commercial applicator aquatic pest management (category 5), the termite control (category 7B) and the wood destroying pest inspection (category 12) competency exams. The new exams have been completed and the category 5 exam has been fully implemented. In 2022, OISC reviewed and approved over 730 continuing certification training programs for pesticide applicators. OISC coordinated with U.S. EPA to develop and gain approval of a state plan for certification of applicators that complies with recent revisions of 40 CFR 171.

**COMPLIANCE & ENFORCEMENT:** In 2022 pesticide staff investigated 320 complaint cases and conducted 853 routine compliance inspections. Previous ten-year highs were 518 complaint investigations in 2017 and 1773 routine inspections in 2017. In 2022 OISC pesticide laboratories analyzed 746 environmental residue samples and 72 product integrity samples. Previous ten-year averages are 1,234

environmental residue samples and 76 product integrity samples. Average complaint investigation sample numbers have increased significantly over the last six years due to the unprecedented increase in the complaints resulting from the adoption of dicamba tolerant crops and a corresponding increase of the use of dicamba herbicides on those crops. The most notable compliance issue again in 2022 was agricultural drift. 227 drift complaints were investigated. 84 of those complaints involved dicamba herbicides. The number of dicamba drift complaints were reduced in 2020-2022 period by approximately 50% from 2017-2019 period. That 50% reduction has been attributed to a June 20<sup>th</sup> application cutoff date being implemented by OISC and the IPRB, effective 2020.

**OUTREACH & COMPLIANCE ASSISTANCE:** During 2022, with financial support from U.S. EPA, OISC conducted a Pesticide Clean Sweep Project, collecting 60,728 pounds of hazardous waste pesticides from 140 Indiana applicators at minimal to no cost to the participants. This collection figure was second only to the previous all-time high in 2017 of 104,520 pounds of pesticide waste. Also, in 2022, OISC continued to support the FieldWatch/DriftWatch/BeeCheck pesticide sensitive crop and pollinator protection mapping registries through financial support of an on-staff data steward for Indiana. For the year, these registries recorded 1,386 registered applicators, 4,139 producers, 2,562 sensitive fields/crops, 182,107 sensitive acres, 2,139 apiaries, and 9,696 pollinator hives. And new for 2022 was the Seed Field Check feature that allows for identifying pesticide sensitive seed characteristics in planted fields. 492 fields covering 62,162 acres were registered in Seed Field Check.

**INDIANA PESTICIDE REVIEW BOARD:** The IPRB was established by state pesticide law IC 15-16-4-42, in 1971. The board consists of 17 to 18 governor-appointed voting members and three non-voting advisory members from OISC and the Purdue Cooperative Extension Service. The board was created to: 1) collect, analyze, and interpret information on matters relating to the registration and use of pesticides; 2) recommend classification of products as restricted use pesticides to the general assembly; 3) hear appeals regarding decisions and determinations by OISC; and 4) provide input to OISC on the implementation of pesticide programs. Voting members include independent scientists, government officials, university researchers, conservationists, a public representative, and product manufacturing, distribution, and application industry representatives. In 2022, the Board and OISC worked to: 1) finalize revisions to Indiana pesticide rules to accommodate recent revisions to the federal EPA applicator certification and training rules; 2) review EPA's approach to address off-target drift from mosquito adulticide insecticides applications to private property; 3) review EPA's revised approach to implement requirements under the Endangered Species Act; 4) review OISC drift response processes, including the development of guidance for interpreting environmental residues in samples collected during investigations; and 5) identify steps to improve OISC customer service for licensed applicators. Details on board meetings and activities are available at <https://oisc.purdue.edu/pesticide/iprb.html> .

*Information as of 11-17-23*





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**2023**  
**INDIANA PESTICIDE REGULATORY SUMMARY**

**AGENCY HISTORY:** The Office of Indiana State Chemist (OISC) was established in 1881 by the Indiana General assembly to regulate the sale and distribution of fertilizer. It was located at Purdue University where chemical analysis on fertilizer products could be performed. Since then, OISC has been assigned no fewer than eleven different agricultural product-based laws and associated regulations to administer and enforce. These laws deal with product truth-in-labeling and distribution, and related user safety, food safety, and environmental safety. Regulated products and services include animal feed, pet-food, fertilizers, seed, plant inoculants, hemp, and pesticides. Details on OISC programs and services are available at <https://oisc.purdue.edu/index.html>.

**MISSION & STAFF:** The pesticide section of OISC is charged with administration of the Indiana pesticide laws I.C. 15-16-4 and I.C.15-16-5 and represents the Environmental Protection Agency (US EPA) in Indiana for the purpose of enforcing federal pesticide law. The OISC mission under these laws is to protect Indiana citizens and the environment from hazardous, ineffective, and improperly formulated and labeled pesticide products and from unacceptable pesticide exposure. Thirty full-time professional, laboratory, investigation, and program staff, plus an additional thirteen shared IT, quality assurance, and accounting support staff are responsible for carrying out this mission. Details on OISC pesticide programs and services are available at <https://oisc.purdue.edu/pesticide/index.html>.

**PRODUCT REGISTRATION:** In 2023, OISC registered 19,218 pesticide products in the state of Indiana. Product registration numbers in 2023 included 2,091 new registrations, which included 1 FIFRA Sec. 24(c) registrations, 67 FIFRA Sec. 25(b) registrations, 695 device registrations, 53 Restricted Use Pesticides, and no FIFRA Sec. 18 registrations. OISC continued to work cooperatively with the U.S. EPA and other State Lead Agencies to review, maintain, and correct product registration databases and product labels. Adequate product registration and labeling are paramount to a safe, effective, and credible national pesticide regulatory program.

**APPLICATOR CERTIFICATION & CREDENTIALING:** OISC issued 29,932 pesticide credentials. This included licenses for 3,640 pesticide application businesses, 10,663 pesticide applicators, 4,404 pesticide technicians, 577 pesticide dealers, and 10,648 farmers using pesticides. OISC worked with Purdue Cooperative Extension Service (CES) and industry representatives to produce two applicator competency exams, one for wood perseveration applicators and one for sewer root control applicators. In 2023, OISC reviewed and approved over 940 continuing certification training programs for pesticide applicators.

**COMPLIANCE & ENFORCEMENT:** In 2023 pesticide staff investigated 218 complaint cases and conducted 922 routine compliance inspections. OISC pesticide laboratories analyzed 692 environmental residue samples and 57 product integrity samples. The most notable compliance issue again in 2023 was agricultural drift. OISC investigated 140 drift complaints. This is a significant reduction from the all-time high of 344 drift investigations in 2017. The number of dicamba drift complaints in 2023 fell to a level of

21. This reduction from the 2017 high of 197 was attributed, at least in part, to an application cutoff date of June 12<sup>th</sup> for over-the-top use of dicamba on soybeans.

**OUTREACH & COMPLIANCE ASSISTANCE:** OISC field staff were able to offer compliance assistance to regulated clients in over 37% of the inspections and investigations for which violations were documented. Also, in 2023, with financial support from U.S. EPA, OISC conducted a Pesticide Clean Sweep Project, collecting 77,130 pounds of hazardous waste pesticides from 162 Indiana applicators at minimal to no cost to the participants. This collection figure was second only to the previous all-time high in 2017 of 104,520 pounds of pesticide waste. During 2023, OISC continued to support the FieldWatch/DriftWatch/BeeCheck/Seed Field Check pesticide sensitive crop and pollinator protection mapping registries through financial support of an on-staff data steward for Indiana. For the year, these registries recorded 1,457 registered applicators, 4,126 producers, 3,094 sensitive fields/crops, 253,657 sensitive acres, 2,077 apiaries, 9,632 pollinator hives, and 599 seed check fields, and 65,458 acres of seed fields.

**INDIANA PESTICIDE REVIEW BOARD:** The IPRB was established by state pesticide law IC 15-16-4-42, in 1971. The board consists of 18 governor-appointed voting members and three non-voting advisory members from OISC and the Purdue Cooperative Extension Service. The board was created to develop pesticide policy and regulations for the State of Indiana. Voting members include independent scientists, government officials, university researchers, conservationists, a public representative, and product manufacturing, distribution, and application industry representatives. In 2023, the Board and OISC reviewed and evaluated: 1) OISC proposals for treated seed disposal options; 2) OISC's Clean Sweep Project; 3) State/EPA residential mosquito control product issue paper; 4) EPA's revised approach to implement requirements under the Endangered Species Act; 5) 2023 pesticide rule revisions; 6) 2023 pesticide law amendments, introduced through HEA 1623; and 7) potential 2024 pesticide law amendments intended to clarify the full intent of provisions in HEA 1623. Details on board meetings and activities are available at <https://oisc.purdue.edu/pesticide/iprb.html>.

*Information as of 3-10-24*