

# INTEGRATED PEST MANAGEMENT IN SCHOOLS

## OVERVIEW OF STATE LAWS

Environmental Law Institute

Part of the ELI Series

*Topics in School  
Environmental Health:  
Overview of State Laws*

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### Why is this Issue Important for School Environmental Health?

Effective pest management is necessary for providing a sanitary school environment and for reducing asthma triggers. However, the use of chemical pesticides can harm the environment inside and outside the school and may impact the health of school occupants. Students and school staff can be exposed to pesticides through inhalation or contact with the skin or eyes. EPA describes a wide range of potential negative health effects from exposure to pesticides, depending on the type of pesticide used – from harm to the endocrine and nervous systems to skin/eye irritation and cancer. Integrated pest management (IPM) is a safer, cost-effective, more environmentally-sustainable way to manage pests. IPM incorporates a wide variety of strategies emphasizing prevention, monitoring, and the careful use of least-hazardous pesticides after other non-chemical strategies have been exhausted.

For more information on:

-Pesticide health effects: <http://www.epa.gov/pesticides/health/human.htm>

-IPM in schools: [http://www.epa.gov/pest/htmlpublications/ipm\\_in\\_schools\\_brochure.html](http://www.epa.gov/pest/htmlpublications/ipm_in_schools_brochure.html)

-Cost-effectiveness of IPM: [http://www.beyondpesticides.org/schools/publications/IPM\\_cost%20FS.pdf](http://www.beyondpesticides.org/schools/publications/IPM_cost%20FS.pdf)

### What Types of State Policies are Included in this Overview?

This Overview includes state laws and regulations that address integrated pest management in schools, though it does not necessarily provide an exhaustive listing of such policies. To the extent that the laws and regulations covered here establish other provisions relating to pesticide use in schools (restrictions, notification, etc.), those other provisions are noted briefly. However, state laws and regulations that address pesticide use in schools but do not explicitly address IPM are *not covered*. For additional information on school pesticide notification and application requirements, see Beyond Pesticides, [State and Local School Pesticide Policies](#).

Many states have adopted laws and regulations on IPM in schools. About two-thirds of the policies summarized here *require* schools to develop an IPM plan or program, though these laws vary in the extent to which they establish minimum elements of an IPM plan. Similarly, while most of the policies covered here include a definition of IPM, the definitions vary. These IPM definitions are excerpted separately at the end of the Overview.

States covered in the summary chart below: **CA, CT, DC, FL, IL, KY, LA, ME, MD, MA, MI, MN, MS, MT, NJ, NY, NC, OH, OR, PA, RI, TX, UT, VA, WV**

## INTEGRATED PEST MANAGEMENT

STATE & CITATION	SUMMARY OF LAW/REGULATION	LAW /REG REQUIRES IPM PROGRAM OR POLICY?
<p><b>CALIFORNIA</b> Ca. Food &amp; Agric. Code §§ 13180 et seq.</p> <p>Ca. Educ. Code § 33541; Ca. Pub. Res. Code § 71301</p>	<p>The California Healthy Schools Act requires the Department of Pesticide Regulation to promote and facilitate the voluntary adoption of IPM programs by schools. The agency is required to: establish a model IPM program consistent with the law’s IPM definition; develop an IPM program guidebook; maintain an internet web site with IPM and pesticide information; and establish an IPM training program. The law also requires the Department to collect from pesticide applicators records of pesticide use in schools.</p> <p>California education and environmental protection laws require that IPM be included in the state’s environmental education curricula and principles.</p> <p><a href="#">IPM Definition</a></p>	NO
<p><b>CONNECTICUT</b> Ct. Gen. Stat. § 22a-66l</p> <p>Ct. Gen. Stat. §§ 10-231a—231d</p> <p>Ct. Admin. Code § 16a-38k-3</p>	<p>Connecticut environmental law authorizes schools that contract for pest control services to establish bidding procedures that require contractors to supply IPM services. The law authorizes the state Department of Energy and Environmental Protection to develop model IPM plans and directs the agency to notify school boards and others of the availability of the model plans.</p> <p>Connecticut education law requires schools that have adopted an IPM plan consistent with the state model to provide school staff with guidelines on implementing the plan and to provide parents/guardians with a description of the plan. Schools without an IPM plan must notify staff and parents/guardians of the school board’s policy on pesticide application and provide a description of any pesticide applications made the previous school year. The law enables parents/guardians to register for prior notice of pesticide applications, requires schools to post prior notice on its internet web site and primary social media account, and requires an annual notice of applications made in the preceding year. The law further bans the application of lawn care pesticides on the grounds of any public or private school serving grade 8 or lower.</p> <p>Connecticut energy law requires state-funded construction, including certain school building projects, to meet minimum high performance criteria, including establishment of an IPM plan consistent with the state model plan.</p> <p><a href="#">IPM Definition</a></p>	NO  NO  YES [newly constructed schools]
<p><b>DISTRICT OF COLUMBIA</b> D.C. Code § 38-825.01</p>	<p>D.C. education law requires the District Department of General Services, which is responsible for building and maintaining D.C. public schools, to establish an IPM program.</p>	YES
<p><b>FLORIDA</b> Fl. Admin. Code § 6A-2.0010</p>	<p>Florida education regulations adopt the State Board of Education’s State Requirements for Educational Facilities (SREF), governing construction, maintenance, and operation of public schools. The SREF requires school boards to establish maintenance and sanitation policies and procedures that include:</p>	YES

	<p>“Operating pest management programs in accordance with the EPA’s Integrated Pest Management in Schools guidelines...which employ the use of effective measures to prevent harborage, propagation, or infestations of rodents, flies, cockroaches, and other insects on school premises.”</p>	
<p><b>ILLINOIS</b> 225 Il. Comp. Stat. § 235/10.2; 77 Il. Admin. Code § 830.710</p>	<p>Illinois structural pest control law directs the Department of Public Health to prepare guidelines for an IPM program for structural pest control at schools and authorizes the Department to provide IPM training to schools. The law also provides that, when economically feasible, schools must develop and implement an IPM program that incorporates the state guidelines and must assign a designated person to implement the IPM plan and oversee pest management practices. Schools must notify the Department every 5 years that they are implementing an IPM program. The law provides more detailed state notification and staff training requirements for school districts that determine an IPM program would not be economically feasible. Health regulations implementing the law authorize administrative fines for failure to follow and observe the IPM requirements.</p> <p><a href="#">IPM Definition</a></p>	<p>YES [if economically feasible]</p>
<p><b>KENTUCKY</b> 302 Ky. Admin. Regs. § 29:050</p>	<p>Kentucky structural pest control regulations require each school district to implement an IPM program. The program must include advance notification to staff and parents/guardians of pesticide use. The regulations establish that persons who apply pesticides in schools must be certified by the state in both the general pest and wood-destroying organisms category and the integrated pest management category.</p> <p><a href="#">IPM Definition</a></p>	<p>YES</p>
<p><b>LOUISIANA</b> La. Stat. §§ 3:3381--3389; La. Admin. Code tit. 7, § 1111</p>	<p>Louisiana agriculture law requires the governing authority of each school to submit annually to the state Department of Agriculture an IPM plan that strongly recommends the least toxic methods of control for grass, weed, rodent, and pest control and that includes information specified in the law. Each local school board must submit a single, comprehensive IPM plan for all schools under its jurisdiction. The annual PM plan must be available for review upon request by the Department and the public. Schools must inform the Department of any deviation from their submitted plan at least 24 hours prior to any pesticide application. Pesticides may only be applied by certified applicators, who must receive training in IPM that includes pest prevention, least toxic methods of pest control, and applying pesticides judiciously. The law also establishes recordkeeping requirements and restrictions on when pesticides may be applied at schools. State agriculture regulations affirm the IPM requirements in the law.</p> <p><a href="#">IPM Definition</a></p>	<p>YES</p>
<p><b>MAINE</b> Code Me. Rules §§ 01.026.27.01, et seq.</p>	<p>Maine pesticide control regulations require all public and private schools to adopt and implement a written policy for the application of IPM techniques in school buildings and on school grounds. The regulations: require pesticide applicators to choose the “lowest risk products;” restrict how pesticides may be used; require schools to maintain a Pest Management Activity Log with specified information; and establish detailed notice provisions regarding the school’s IPM program and pesticide applications. The regulations also require schools to appoint an IPM Coordinator to lead implementation of the IPM policy and to be responsible for: coordinating pest monitoring and pesticide applications; making sure all notice requirements are met; completing state-approved training;</p>	<p>YES</p>

	<p>authorizing pesticide applications not exempted by the law; and making IPM information available to parents, guardians, and staff upon request.</p> <p><a href="#">IPM Definition</a></p>	
<p><b>MARYLAND</b> Md. Agric. Code § 5-208.1; Code of Md. Regs. § 15.05.02.03</p>	<p>Maryland pesticide control law requires county boards of education to develop and implement in their schools an IPM system approved by the state Department of Agriculture. The law requires the Department to develop uniform standards and criteria for implementing IPM systems in schools and on school grounds. Pursuant to the law, county boards must designate a contact person for handling IPM inquiries and maintaining information for all pesticides that may be used in the school district. The law also requires schools to provide specified advance notice of pesticide applications to staff and parents/guardians upon request. Regulations implementing the law set forth additional notification requirements and specify minimum elements of an IPM system, including: an IPM policy; procedures for regular inspections; a range of pest management strategies; staff education and training; and record-keeping and decision-making procedures.</p> <p><a href="#">IPM Definition</a></p>	YES
<p><b>MASSACHUSETTS</b> Ma. Gen. Laws Ch. 132B, §§ 2—6i; 333 Ma. Code Regs. §§ 14.01—14.11</p>	<p>Massachusetts agriculture law requires schools to: adopt and implement an IPM plan; file a copy of the IPM plan with the state; make a copy available to the public upon request; and review the plan annually. The law directs the Department of Agricultural Resources to produce a model IPM plan that can be adopted by schools. Regulations implementing the law prohibit the use of pesticides on school indoor and outdoor property unless the school has established and maintained an IPM plan containing elements specified in the regulations, including: a description of the school’s IPM communication and training programs for staff; a list of pesticides to be used; a list of non-pesticide control techniques and preventative methods to be used; and the school location where the IPM plans and records are available for viewing. The law and regulations also restrict the types of pesticides that may be used on school property, prohibit the use of pesticides in specified situations, and establish notification requirements in connection with pesticide applications.</p> <p><a href="#">IPM Definition</a></p>	YES
<p><b>MICHIGAN</b> Mi. Comp. Laws §§ 324.8316, 324.8325; Mi. Admin. Code R285.637.14</p>	<p>Michigan environmental law prohibits the application of pesticides in a school unless there is an IPM program in place for the building. The law restricts when pesticides may be applied, requires advance notification of pesticide applications, and directs schools with IPM programs to inform parents/guardians annually that they may review the program and pesticide application records. The law also requires the state Department of Agriculture to: develop and disseminate a model IPM policy for schools; encourage school boards to adopt and follow the policy; and develop rules governing training programs for IPM in schools. State agriculture regulations require that before any pesticide application is made in a school, the pesticide applicator must have participated in an approved IPM training program, and the building in which the pesticide is to be applied must have a written IPM program in place.</p> <p><a href="#">IPM Definition</a></p>	NO
<p><b>MINNESOTA</b> Mn. Stat. § 121A.30</p>	<p>Minnesota education law addressing pesticide notification in schools establishes that school boards may only notify students, parents, and employees that they have adopted an IPM plan if that plan is a “managed pest control program designed to minimize the risk to human health and the environment and to</p>	NO

	reduce the use of chemical pesticides” and if the plan ranks the school district’s response to pests in the manner specified in the law. Additionally, state agriculture laws (Mn. Stat. §§ 17.3114, 18B.305) direct the Department of Agriculture to coordinate a state approach to use of IPM and require the state to promote and facilitate IPM through education, technical or financial assistance, information, and research.	
<b>MISSISSIPPI</b> Ms. Code § 37-11-71	Mississippi education law addressing the management of asthma directs the state Department of Education to require each public school district to implement an IPM program that includes: procedural guidelines for pesticide applications; education of building occupants; and inspections and monitoring of pesticide applications. Pursuant to the law, the IPM program may limit the frequency, duration, and volume of pesticide application on school grounds. The law establishes that its provisions shall stand repealed on July 1, 2014.	YES
<b>MONTANA</b> Mt. Admin. Regs. §§ 4.10.202, .205	Montana agriculture regulations governing licensing of pesticide applicators establish a “school integrated pest management” licensing classification for applicators using pesticides in the school environment under a model IPM program. The regulation requires such applicators to demonstrate a practical knowledge of IPM principles and of the pesticides registered for school use.	NO
<b>NEW JERSEY</b> N.J. Stat. §§ 13:1F-19--13:1F-33; N.J. Admin. Code §§ 7:30-13.1--7:30-13.9	New Jersey pesticide control law requires public and private schools to: adopt an IPM policy consistent with the model policy developed by the Department of Environmental Protection; designate an IPM coordinator to implement the policy; and provide specified notice of the policy to the school community. The law also restricts when schools may apply pesticides that are not “low impact” pesticides as defined in the law and requires schools to provide advance notice of application of these pesticides. The law authorizes administrative orders for violations. Regulations implementing the law establish the necessary elements of an IPM policy and require each school to develop and implement a site-specific IPM Plan. The regulations also set forth the training requirements for IPM coordinators, the recordkeeping and notification requirements for schools, and the administrative enforcement procedures available to the Department.  <a href="#">IPM Definition</a>	YES
<b>NEW YORK</b> N.Y. Code Rules & Regs. tit. 8, § 155.4	New York education regulations require boards of education and cooperative educational services to establish comprehensive maintenance plans that include “provisions for a least toxic approach to integrated pest management.”	YES
<b>NORTH CAROLINA</b> N.C. Gen. Stat. §§ 115C-12, 115C-47	North Carolina education law requires local boards of education to adopt policies that require the use of IPM. The law also requires the State Board of Education to establish IPM guidelines that are consistent with the policy of the North Carolina School Boards Association, Inc.  <a href="#">IPM Definition</a>	YES
<b>OHIO</b> Oh. Rev. Code § 921.18; Oh. Admin. Code §§ 901:5-11-14--15	Ohio agriculture law requires the state Department of Agriculture to establish standards governing the development and implementation of IPM practices. Agriculture rules require those who develop and implement IPM activities at schools to undertake a variety of activities, including: conducting a comprehensive site assessment of the property; determining measures to aid in	NO

	<p>prevention, elimination, or control of pests, while minimizing exposures; establishing a strategy for ongoing site monitoring and assessment; and evaluating the results of IPM activities to determine whether pest management methods were effective and exposure risks sufficiently minimized. The rules also restrict when and how pesticides may be applied in schools and establish requirements for notification of pesticide applications at schools.</p> <p><a href="#">IPM Definition</a></p>	
<p><b>OREGON</b> Or. Stat. §§ 634.700 et seq.</p>	<p>Oregon pesticide control law requires all schools to adopt an IPM plan that meets several criteria specified in the law. The law requires schools to adopt a list of low-impact pesticides for use in conjunction with the IPM plan, but prohibits the inclusion of pesticides that are classified as human carcinogens or probable human carcinogens, or that have labels including the words “warning” or “danger.” The law also establishes restrictions on the application of pesticides when students are present. Pursuant to the law, schools must have a designated IPM plan coordinator whose responsibilities include: providing required notification of pesticide applications; overseeing pest prevention efforts; determining least hazardous pest management measures; ensuring proper performance of pesticide applications; evaluating pest management results; and keeping required records. The law establishes civil penalties for violations.</p> <p><a href="#">IPM Definition</a></p>	YES
<p><b>PENNSYLVANIA</b> 24 Pa. Stat. § 7-772.1</p>	<p>Pennsylvania education law requires public schools to adopt an IPM plan consistent with the IPM policies set by the state Department of Agriculture. The law requires the Department to assist schools in developing IPM plans and to prepare a standard structural IPM agreement that schools may use.</p> <p><a href="#">IPM Definition</a></p>	YES
<p><b>RHODE ISLAND</b> R.I. Gen. Laws § 23-25-37</p>	<p>Rhode Island pesticide control law requires the state departments of health and environmental management to develop regulations for, among other things, the “promotion and implementation of integrated pest management (IPM)” as defined under state law. The law prohibits the application of pesticides during school hours and requires schools to provide staff and parents/guardians with information about pesticide applications.</p> <p><a href="#">IPM Definition</a></p>	NO
<p><b>TEXAS</b> Tx. Occup. Code § 1951.212; 4 Tx. Admin. Code § 7.150</p>	<p>Texas structural pest control law requires school districts to adopt an IPM program that incorporates state standards and to designate an IPM coordinator. The law directs the state Department of Agriculture to establish standards for school IPM programs that include a requirement to use the least toxic methods available and to adopt a rule listing categories of pesticides that school districts may apply. Pursuant to the law, the Department must inspect each school district at least once every 5 years for compliance with the IPM requirements. Regulations under the law specify the elements of the required school IPM program, which include: an IPM policy as outlined in the regulations; a monitoring program; the preferential use of lower risk pesticides and non-chemical strategies; and a plan for educating employees about their roles in the program. School districts must appoint an IPM Coordinator to: implement the IPM program; coordinate pest management personnel; implement record-keeping requirements; conduct periodic facility inspections; and ensure that pesticide use complies with the program. The regulations require applicators to obtain written approval from the school IPM coordinator for the use of</p>	YES

	<p>pesticides. The regulations also establish restrictions on the use of pesticides, as well as notification requirements for pesticide applications.</p> <p><a href="#">IPM Definition</a></p>	
<p><b>UTAH</b> Ut. Admin. Rules § 392-200</p>	<p>Utah health regulations governing school sanitation and operation require public and private schools to have a written IPM plan and to adopt IPM practices and principles. The regulations require the plan to incorporate several elements, including: a policy statement; implementation and education; pest identification, monitoring, reporting, and control practices; approved pesticides; procedures for pesticide uses; applicator requirements; and a policy for notifying parents, students, and staff. The regulations also direct schools to use non-chemical management methods “whenever possible” and to consider a “no-action alternative” in cases where the pest has no public health or property damage significance.</p>	YES
<p><b>VIRGINIA</b> Va. Code § 22.1-132.2</p>	<p>Virginia education law requires the state Department of Education to make available to school boards information on IPM programs that appropriately address the application of chemical pesticides and other pest control measures on school property. The law also requires local school divisions to maintain documentation of all pesticide applications, including information about the target pest, the formulation applied, and the specific location of the application.</p> <p><a href="#">IPM Definition</a></p>	NO
<p><b>WEST VIRGINIA</b> W.V. Code §§ 19-16A-4, 18-5-9b; W.V. Admin. Code §§ 61-12J-1 et seq.</p>	<p>West Virginia pest control law requires the state Department of Agriculture to promulgate rules establishing an IPM program that includes specified elements. The state education law requires local boards of education to implement the IPM program established by the Department. The Department’s rules require public and private schools to develop, maintain, and submit to the Department an IPM program that includes: a policy statement; pest management objectives; IPM education for building occupants; inspection and monitoring activities; an evaluation of IPM strategies being used; and action thresholds for common pests. The rules also establish requirements for: building surveys, monitoring and inspections; prior notification of pesticide applications; restrictions on use of certain pesticides, and recordkeeping. Schools are prohibited from applying pesticides unless monitoring as specified in the rules indicates that pests are present, and schools are required to use the least hazardous pest control method that is practical and effective, as outlined in the law. The rule requires certified professionals applying pesticides in a school to be certified in the sub category of Urban Integrated Pest Management.</p> <p><a href="#">IPM Definition</a></p>	YES

## **IPM DEFINITIONS**

Following are IPM definitions included in the laws and regulations summarized above only. IPM definitions that may appear in other state laws and regulations are not listed here.

**California.** Ca. Food & Agric. Code § 13181: “Notwithstanding any other provision of law, for purposes of this article, ‘integrated pest management’ means a pest management strategy that focuses on long-term prevention or suppression of pest problems through a combination of techniques such as monitoring for pest presence and establishing treatment threshold levels, using nonchemical practices to make the habitat less conducive to pest development, improving sanitation, and employing mechanical and physical controls. Pesticides that pose the least possible hazard and are effective in a manner that minimizes risks to people, property, and the environment, are used only after careful monitoring indicates they are needed according to preestablished guidelines and treatment thresholds. This definition shall apply only to integrated pest management at school facilities and child day care facilities.”

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**Connecticut.** Ct. Gen. Stat. §§ 22a-47, 10-231a: “‘Integrated pest management’ means use of all available pest control techniques, including judicious use of pesticides, when warranted, to maintain a pest population at or below an acceptable level, while decreasing the use of pesticides.”

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**Illinois.** 225 Il. Comp. Stat. § 235/3.25: “‘Integrated pest management’ is defined as a pest management system that includes the following elements: (a) identifying pests and their natural enemies; (b) establishing an ongoing monitoring and recordkeeping system for regular sampling and assessment of pest and natural enemy populations; (c) determining the pest population levels that can be tolerated based on aesthetic, economic, and health concerns, and setting action thresholds where pest populations or environmental conditions warrant remedial action; (d) the prevention of pest problems through improved sanitation, management of waste, addition of physical barriers, and the modification of habitats that attract or harbor pests; (e) reliance to the greatest extent possible on nontoxic, biological, cultural or mechanical pest management methods, or on the use of natural control agents; (f) when necessary, the use of chemical pesticides, with preference for products that are the least harmful to human health and the environment; and (g) recordkeeping and reporting of pest populations, surveillance techniques, and remedial actions taken.”

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**Kentucky.** 302 Ky. Admin. Regs. § 29:010: “‘Integrated pest management program’ means a strategy of controlling pests by combining biological, chemical, cultural, mechanical, and physical control methods in a way that minimizes economic, health, and environmental risks.”

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**Louisiana.** La. Stat. § 3:3382: “‘Least toxic method’ means an integral part of an integrated pest management plan and is a combination of common sense practices that use current, comprehensive information on the life cycles of pests and their interactions with the environment, in combination with available pest control methods used to manage pest damage by the most economical means with the least possible hazard to people, property, and the environment.”

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**Maine.** Code Me. Rules § 01.026.27.01: “For the purposes of this rule, Integrated Pest Management (IPM) means the selection, integration and implementation of pest damage prevention and control based on predicted socioeconomic and ecological consequences, including: (1) Understanding the system in which the pest exists, (2) Establishing dynamic economic or aesthetic injury thresholds and determining whether the organism or organism complex warrants control, (3) Monitoring pests and natural enemies, (4) When needed, selecting the appropriate system of cultural, mechanical, genetic, including resistant cultivars, biological or chemical prevention techniques or controls for desired suppression, and (5) Systematically evaluating the pest management approaches utilized.”

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**Maryland.** Md. Agric. Code § 5-208.1(a)(6); Code of Md. Regs. § 15.05.02.02: “‘Integrated pest management’ means a managed pest control program in which methods are integrated and used to keep pests from causing economic, health related, or aesthetic injury through the utilization of site or pest inspections, pest population monitoring, evaluating the need for control, and the use of one or more pest control methods including sanitation, structural repair, nonchemical methods, and, when nontoxic options are unreasonable or have been exhausted, pesticides in order to: (i) Minimize the use of pesticides; and (ii) Minimize the risk to human health and the environment associated with pesticide applications.”

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**Massachusetts.** Ma. Gen. Laws Ch. 132B, § 2: “‘Integrated pest management’, a comprehensive strategy of pest control whose major objective is to achieve desired levels of pest control in an environmentally responsible manner by combining multiple pest control measures to reduce the need for reliance on chemical pesticides; more specifically, a combination of pest controls which addresses conditions that support pests and may include, but is not limited to, the use of monitoring techniques to determine immediate and ongoing need for pest control, increased sanitation, physical barrier methods, the use of natural pest enemies and a judicious use of lowest risk pesticides when necessary.”

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**Michigan.** Mich. Comp. Laws § 324.8304: “‘Integrated pest management’ means a pest management system that uses all suitable techniques in a total management system to prevent pests from reaching unacceptable levels or to reduce existing pest populations to acceptable levels.”

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**New Jersey.** N.J. Stat. § 13:1F-21: “‘School integrated pest management policy’ means a managed pest control policy that eliminates or mitigates economic, health, and aesthetic damage caused by pests in schools; that delivers effective pest management, reduces the volume of pesticides used to minimize the potential hazards posed by pesticides to human health and the environment in schools; that uses integrated methods, site or pest inspections, pest population monitoring, an evaluation of the need for pest control, and one or more pest control methods, including sanitation, structural repair, mechanical and biological controls, other nonchemical methods, and when nonchemical options are ineffective or unreasonable, allows the use of a pesticide, with a preference toward first considering the use of a low impact pesticide for schools.”

N.J. Admin. Code 7:30-1.2: “‘Integrated pest management’ or ‘IPM’ means a sustainable approach to managing pests by using all appropriate technology and management practices in a way that minimizes health, environmental and economic risks. IPM includes, but is not limited to, monitoring pest populations, consumer education, and when needed cultivation practices, sanitation, solid waste management, structural maintenance, physical, mechanical, biological and chemical controls.”

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**North Carolina.** N.C. Gen. Stat. § 115C-47: “As used in this sub-subdivision, ‘Integrated Pest Management’ or ‘IPM’ means the comprehensive approach to pest management that combines biological, physical, chemical, and cultural tactics as well as effective, economic, environmentally sound, and socially acceptable methods to prevent and solve pest problems that emphasizes pest prevention and provides a decision-making process for determining if, when, and where pest suppression is needed and what control tactics and methods are appropriate.”

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**Ohio.** Ohio Rev. Code § 921.01: “‘Integrated Pest Management’ means a sustainable approach to managing pests by combining biological, cultural, physical, and chemical tools in a way that minimizes economic, health, and environmental risks.”

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**Oregon.** Or. Stat. § 634.700: “‘Integrated pest management plan’ means a proactive strategy that:

(a) Focuses on the long-term prevention or suppression of pest problems through economically sound measures that: (A) Protect the health and safety of students, staff and faculty; (B) Protect the integrity of campus buildings and grounds; (C) Maintain a productive learning environment; and (D) Protect local ecosystem health; (b) Focuses on the prevention of pest problems by working to reduce or eliminate conditions of property construction, operation and maintenance that promote or allow for the establishment, feeding, breeding and proliferation of pest populations or other conditions that are conducive to pests or that create harborage for pests; (c) Incorporates the use of sanitation, structural remediation or habitat manipulation or of mechanical, biological and chemical pest control measures that present a reduced risk or have a low impact and, for the purpose of mitigating a declared pest emergency, the application of pesticides that are not low-impact pesticides; (d) Includes regular monitoring and inspections to detect pests, pest damage and unsanctioned pesticide usage; (e) Evaluates the need for pest control by identifying acceptable pest population density levels; (f) Monitors and evaluates the effectiveness of pest control measures; (g) Excludes the application of pesticides on a routine schedule for purely preventive purposes, other than applications of pesticides designed to attract or be consumed by pests; (h) Excludes the application of pesticides for purely aesthetic purposes; (i) Includes school staff education about sanitation, monitoring and inspection and about pest control measures; (j) Gives preference to the use of nonchemical pest control measures; (k) Allows the use of low-impact pesticides if nonchemical pest control measures are ineffective; and (l) Allows the application of a pesticide that is not a low-impact pesticide only to mitigate a declared pest emergency or if the application is by, or at the direction or order of, a public health official.

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**Pennsylvania.** 24 Pa. Stat. §7-772.1: “‘Integrated Pest Management Plan.’ A plan which establishes a sustainable approach to managing pests by combining biological, cultural, physical and chemical tools in a way which minimizes economic, health and environmental risks.”

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**Rhode Island.** Definition (R.I. Gen. Laws § 23-25-37): “‘Integrated pest management’ (‘IPM’) refers to a method of pest control that uses a systems approach to reduce pest damage to tolerable levels through a variety of techniques, including natural predators and parasites, genetically resistant hosts, environmental modifications and, when necessary and appropriate, chemical pesticides. IPM strategies rely upon non-chemical defenses first and chemical pesticides second.”

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**Texas.** 4 Tx. Admin Code § 7.114: “Integrated Pest Management (IPM)--A pest management strategy that relies on accurate identification and scientific knowledge of target pests, reliable monitoring methods to assess pest presence, preventative measures to limit pest problems and thresholds to determine when corrective control measures are needed. Under IPM, whenever economical and practical, multiple control tactics should be used to achieve best control of pests. These tactics will possibly include, but are not limited to, the judicious use of pesticides.”

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**Virginia.** Va. Code § 22.1-132.2: “For purposes of this section, ‘integrated pest management’ shall mean a managed pest control and suppression program that uses various integrated methods to keep pests from causing economic, health-related, or aesthetic injury and minimizes the use of pesticides and the risk to human health and the environment associated with pesticide applications. Methods may include the utilization of site or pest inspections, pest population monitoring, evaluation of control requirements, and the use of one or more pest control methods including sanitation, structural repair, nonchemical methods, and pesticides when nontoxic options produce unsatisfactory results or are impractical.”

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**West Virginia.** W.V. Admin. Code §61-12J-3: “Integrated Pest Management is a system of controlling pests in which pests are identified, action thresholds are considered, all possible control options are evaluated and selected controls are implemented. Control options, which include biological, chemical, cultural, manual, and mechanical methods, are used to prevent or remedy unacceptable pest activity or damage. Choice of control options is based on effectiveness, environmental impact, site characteristics, worker/public health and safety, and economics. The goal of an integrated pest management system is to manage pests and the environment to balance benefits of control, costs, public health and environmental quality. Integrated pest management takes into account site-specific factors and takes advantage of all pest management options.”

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