

Integrated Pest Management Program For Cass City Public Schools

Main Office: 4868 N. Seeger St.

Jr/Sr High School: 4868 N. Seeger St.

Elementary: 4805 Ale St.

Early Childhood Education Center: 6557 Rose St.



IPM Site Evaluation

Cass City Public Schools

School: Cass City Jr/Sr High School

Grades: 7 – 12

Address: 4868 N. Seeger St Cass City, MI 48726

This school contains grades 7 – 12 with approximately 456 students attending each day. There are no significant rodent or pest problems at this time. The district's head of maintenance will monitor this situation routinely and remedy the situation in a safe and efficient manner should an issue with pests or rodents occur. There is approximately 88,000 square feet on the interior of this school.

Areas to be monitored include but not limited to:

Kitchens, Break Rooms, Cafeteria

Visual inspection with particular emphasis on cockroach and rodent infestations. Look for droppings, gnawing, harborage or insanitary conditions. Monitoring devices such as glue boards may be used. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when school is not in session.

Bathrooms, Locker Rooms, Store Rooms and Closets

Visual inspection. Bathrooms and locker rooms may be attractive to roaches. Look for droppings and/or egg cases. Monitoring devices such as glue boards may be used. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when school is not in session.

Classrooms and Hallway

Visual inspection. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when school is not in session.

Boiler Room, Maintenance Area

Visual inspection. Monitor for rodents and insects with glue boards or traps. Monitor on bi-weekly basis.

Exterior Areas

Monitor periodically. Look for entry points into buildings. Look for areas that can serve as a reservoir for pests such as weedy areas or accumulations of debris.




Cass City Jr./Sr. High School

Teacher/Room Location

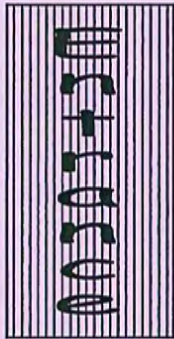
2015-2016

Weight Room Ext. 3509	Bus Garage 872-5618
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Rm. # 207 Ext. 3207 Civics/Econ - Inclusion SS LC Tech Math - History Movies Mr. Hartzell
Rm. # 204 Ext. 3204 Alg II - AP Calculus Pre Calculus - AMS - Alg 2 - Support Mrs. Maurer
Rm. # 203 Ext. 3203 Eng 11 - Eng 12 AP Language Mrs. Reif
Rm. # 201 Ext. 3201 World History - US History Mrs. Zawilinski
Rm. # 200 Ext. 3200 Alg I Pt1, Alg I Pt2 Support, Alg 2 Pt1 & 2 Mr. Gordon

Rm. # 206 Ext. 3206 Chemistry - AP Chemistry Physics Mr. Gruber	Rm. # 305 Ext. 3305 Intro to Ag - Biology - Ag Leadership Online Academics Mr. Weyer	
Rm. # 205 Ext. 3205 Biology/Phy Sci Mr. Weaver Mr. Dorland-Health	 Courtyard	Rm. # 304 Ext. 3304 Eng 8 Read/Write Supp 8 Mrs. Swiderski
Rm. # 202 Ext. 3202 Computer Lab Mr. Weaver On-line Academics		Library Ext. 3506 Mrs. Taylor
Tech Dept Ext. 1843/3511		ISS AV Room

Rm. #306 Ext. 3306 Alg I Part 1 - Math 7 Alg I Part 1 Supp Mr. Zdrojowski
Rm. #303 Ext. 3303 English 9 & 10 Mrs. Graff
Rm. #302 Ext. 3302 Alg I - Geometry - Geometry 10 & Sup Mrs. Tamlyn
Rm. #300 Ext. 3300 Spanish 1, 2 & 3 - US History Mr. Collins
RR Special Ed Office(s)



Rm. #110 Ext. 3110 Test Prep Sen. Sem R/W 9 Supp Eng 12 Mr. Walker	Rm. #111 Ext. 3111 LC Eng 9-12 LC Supp 7, 9, 10 Mrs. Markel	Rm. #109 Ext. 3109 LC Supp 8,11,12 LC Alg I Eng 9 Inclusion Mrs. Wright	Mr. Mayer 3510	Rm. #108 Ext. 3108 Parapros
Mrs. Forster 3504 Courtyard				
Rm. #100 Ext. 3100 Teacher Work Room	Rm. #101 Ext. 3101 Pub - Ms. Laming (Computer Lab) Technology 7/Fin Math Mr. Tuckey	Rm. #102 Ext. 3102 Social Studies 7th & 8th Mr. Schinnerer	Rm. #107 Ext. 3107 Art I Art 7/8 Adv Art Crafts/ Sculpture Drawing Ms. Laming	

Rm. #106 Ext. 3106 Symphony & Jazz Band 7/8 Band (1st-3rd hour) Online Academics Mrs. Curtis
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Supt. Office Mr. Hartel -1831 Mrs. Kittle -3600 Mrs. Zimba -1846	Office Mrs. Champagne Ext. 3500 Mr. Daniels Ext. 1835
	Guidance Office Mrs. Fluegge- Ext. 1840 Mrs. Hempton- Ext. 1839 Office Conf. Room Ext. 3502
	Stage
	Cafeteria
	Kitchen Ext. 3515 872-5729

<h3>Gym</h3> <p>Phys Ed 7/8 PE Mr. Cuthrell</p>	
Girls' Locker Room Ext. 3508	Boys' Locker Room Ext. 3507

Rm. #103 Ext. 3103 Science 7/8 Mr. Herrmann
Rm. #104 Ext. 3104 Stem 7/8 Stem 2 Mr. Gruber Stem - Mrs. Maurer Financial Math - Mr. Tuckey
Rm. #105 Ext. 3105 BHR/Ind Ed, Advanced Woods Mr. Tuckey
Receiving Room Ext. 1837 Mr. Barnes/Mr. Grady

IPM Site Evaluation

Cass City Public Schools

School: Cass City Elementary **Grades:** Young 5's - 6

Address: 4805 Ale St. Cass City, MI 48726

This school contains grades Young 5's – 6 with approximately 545 students attending each day. There are no significant rodent or pest problems at this time. The district's head of maintenance will monitor this situation routinely and remedy the situation in a safe and efficient manner should an issue with pests or rodents occur. There is approximately 76,000 square feet on the interior of this building.

Areas to be monitored include but not limited to:

Kitchens, Break Rooms, Cafeteria

Visual inspection with particular emphasis on cockroach and rodent infestations. Look for droppings, gnawing, harborage or insanitary conditions. Monitoring devices such as glue boards may be used. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when school is not in session.

Bathrooms, Locker Rooms, Store Rooms and Closets

Visual inspection. Bathrooms and locker rooms may be attractive to roaches. Look for droppings and/or egg cases. Monitoring devices such as glue boards may be used. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when school is not in session.

Classrooms and Hallway

Visual inspection. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when school is not in session.

Boiler Room, Maintenance Area

Visual inspection. Monitor for rodents and insects with glue boards or traps. Monitor on bi-weekly basis.

Exterior Areas

Monitor periodically. Look for entry points into buildings. Look for areas that can serve as a reservoir for pests such as weedy areas or accumulations of debris.



GRADES K-6

Cass City Elementary School

4805 Ale Street
Cass City, MI 48726
Phone: 989-872-4397
Fax: 989-872-2990

31 Rm. 607 2nd Grade Dorland	30 Rm. 605 1st Grade Green	29 Rm. 603 1st Grade Peruski	28 Rm. 601 SRC Wood	Storage	26 Rm. 504 Kindergarten Jaworski	27 Rm. 502 1st Grade LeValley	25 Rm. 505 Kindergarten Stoutenburg
					Boys' Restroom	Girls' Restroom	Para Pro Mrs. Ross 509
							Para Pro Mr. Whittaker 609

32 Rm. 608 2nd Grade Hacker	Rm. 606 2nd Grade Markel	Rm. 604 Special Education Stolicker	Rm. 602 Title 1 Damm, Hartel, Phillips, Meck	Ext. 2522 Howard	OT-McGuire	Teachers' Workroom
33	34	35	36			Ext. 2523 Garrett Nurse

43 Rm. 707 4th Grade Gniewek	42 Rm. 705 3rd Grade Stec	41 Rm. 703 3rd Grade Milligan	40 Rm. 701 3rd Grade Murdoch	Storage	37 Media Center Ext. 524/525 Anderson/Swidarski?	39 Ext. 516 Teachers' Lounge	Rm. 401 Computer Lab	38
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44 Rm. 704 4th Grade Green	Rm. 702 4th Grade Beckrow
45	46 Storage
	47 Rm. 802 5th Grade Bitzer
	48 Rm. 804 5th Grade Kirn
	49

Sattelberg 709	Girls' Restroom	Boys' Restroom	Rm. 403 Computer Lab	Girls' Restroom	Boys' Restroom
Ouvry 809			53		
	Rm. 801 6th Grade Woloshen			Rm. 405 Music Walker	
				54	
	Rm. 803 6th Grade Stern			Rm. 407 Band Curtis	
				55	
	Rm. 805 5th Grade Ross			Rm. 409 Computer Lab	
				56	

24 Rm. 505 Kindergarten Stoutenburg	
23 Rm. 503 Kindergarten Maurer	
22 Rm. 501 Kindergarten Schefka	
Milligan Zdrojewski	Markel Fernald
Office	

21 Main Entrance
Foyer
66 Rm. 402 6th Grade Bailey
65
64 Boys' Locker
P.E. 2 Gym Ext. 2416
63 Girls' Locker
P.E. 1 Girls Locker Rm. 2414

62 Entrance
61 Cafeteria
60 Storage
60 Rm. 708 Special Ed Schinnerer
59 Ext. 410 Custodian
58 Stage
58 Ext. 413 Kitchen
57



IPM Site Evaluation

Cass City Public Schools

School: Early Childhood Education Center

Grades: GSRP, Pre-school, Day Care

Address: 6557 Rose St. Cass City, MI 48726

This school contains our GSRP classrooms, Pre-school program and Day Care including toddlers and infant rooms with approximately 130 students attending each day. This number varies from day to day and is an estimate only. There are no significant rodent or pest problems at this time. The district's head of maintenance will monitor this situation routinely and remedy the situation in a safe and efficient manner should an issue with pests or rodents occur. There is approximately 76,000 square feet on the interior of this building.

Areas to be monitored include but not limited to:

Kitchens, Break Rooms, Cafeteria

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Exterior Areas

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Advisory to Parents/Guardians

Dear Parent or Guardian:

State of Michigan law requires that schools and daycare centers that may apply pesticides on school or daycare property must provide an annual advisory to parents or guardians of students attending the facility.

Please be advised that the Cass City Public Schools and daycare center utilizes an Integrated Pest Management (IPM) approach to control pests. IPM is a pest management system that utilizes all suitable techniques in total pest management system with the intent of preventing pests from reaching unacceptable levels or to reduce an existing population to an acceptable level. Pest management techniques emphasize sanitation, pest exclusion, and biological controls. One of the objectives of using an IPM approach is to reduce or eliminate the need for chemical applications of pesticides. However, certain situations may require the need for pesticides to be utilized.

As required by State of Michigan law, you will receive advance notice regarding the non-emergency application of a pesticide such as an insecticide, fungicide or herbicide, other than a bait or gel formulation, that is made to the school or daycare grounds or buildings during this school year. Please note that notification is not given for the use of sanitizers, germicides, disinfectants or anti-microbial cleaners. In certain emergencies, such as an infestation of stinging insects, pesticides may be applied without prior notice to prevent injury to students, but you will be notified following any such application.

Advance notification of pesticide applications, other than a bait or gel formulation, will be given by at least 2 methods. The first method will be by posting at the main entrance to the school/daycare center, which is located at entrance to each building. The second method will be by email and posting information on the school or daycare center's web site.

Please be advised that parents or guardians of children attending the school or daycare center are entitled to receive the advance notice of a pesticide application, other than a bait or gel formulation, by first class United States mail postmarked at least 3 days before the pesticide application, if they so request. If you prefer to receive the notification by first class mail, please complete the attached form and return it to our office.

Please be advised that parents or guardians of children attending the school may review the school's Integrated Pest Management program and records of any pesticide application upon request.

REQUEST FOR ADVANCE NOTIFICATION BY FIRST CLASS MAIL

Dear Parent / Guardian:

Complete this form **ONLY** if you are requesting advance notification of pesticide application by United States Postal Service first-class mail.

Please be advised that you **WILL** receive notice via the methods identified in the annual advisory notice and should only complete this form if you are also requesting notification by first-class mail.

If you are requesting prior notification of pesticide treatments conducted at this school or daycare center, other than a bait or gel formulation, and you would like the notice to be delivered by United States Postal Service first-class mail, postmarked at least 3 days prior to the planned treatment, please complete the information on the following form and submit it to:

Cass City Public Schools
4868 Seeger St.
Cass City, MI 48726
Jeffrey Hartel, Superintendent
989-872-2200

I wish to receive a prior notice of any pesticide application to the school or daycare center by first-class mail.

PARENT NAME: _____

STUDENT NAME: _____

STREET ADDRESS: _____

CITY, ZIP: _____

DAY PHONE #: _____

EVENING PHONE #: _____

Please Check One:

- I wish to be notified prior to a scheduled pesticide application inside of the school building.
- I wish to be notified prior to a scheduled pesticide application outside of the school building.
- Both of the above.

Signature

Date

ADVANCE NOTICE OF PESTICIDE TREATMENT

This notice is to be provided whenever a pesticide, other than a bait or gel formulation, is to be applied at this facility. The information will be posted using the methods identified in the annual Advisory To Parents.

Attention: Parents / Guardians of students attending this facility:

This facility utilizes an Integrated Pest Management approach for pest control, employing non-chemical methods that include sanitation and exclusion to control pests. However, from time to time a pesticide application may be necessary to control certain pests.

Please be advised that a pesticide is expected to be applied to control _____.

The approximate location of this pest control treatment is _____.

The anticipated date of treatment will be _____.

If you have questions pertaining to this treatment, please contact:

Name:

Phone:

E-mail:

For further information pertaining to pesticides you can contact the National Pesticide Information Center at Oregon State University. The toll free number is 800-858-7378. The web site is www.npic.orst.edu.

For additional information pertaining to pesticide use, you can contact the Michigan Department of Agriculture and Rural Development (MDARD). The MDARD's web site is www.michigan.gov/mdard and a contact phone number for MDARD is 800-292-3939.

Integrated Pest Management Program Information

The Natural Resources and Environmental Protection Act, Act 451, Part 83, Pesticide Control and Regulation 637, Pesticide Use has certain requirements when making a pesticide application in schools, day care centers, public buildings, or health care facilities. Those requirements include, but are not limited to:

- A verifiable Integrated Pest Management (IPM) program shall be in place prior to making a pesticide application in schools, day care centers, public buildings or health care facilities. Each building that is treated with a pesticide must have a verifiable IPM program. Note that the Michigan Department of Agriculture and Rural Development (MDARD) interprets the Act to require that a verifiable copy of the IPM program be located in each individual building so that it is available for use and review by facility staff, parents/guardians, or MDARD as needed or requested.
- All pesticide applicators must be IPM trained. Training can be done through self-study books and verified by the applicator's immediate supervisor sending a signed form to MDARD.
- Depending on the type of pesticide treatment applied, the applicator may be required to hold a valid commercial pesticide applicator certification or registration credential issued by MDARD.

Please note that further information pertaining to IPM can be found at MDARD's web site at www.michigan.gov/mdard. Once at this site, type in "IPM" into the search function and follow the link to obtain further information.

The following IPM program can be used as a tool to assist you in creating your own IPM program. This sample IPM program is NOT a completed IPM program. This sample IPM program must be modified for use in your specific facility and the user should recognize that regulatory requirements may change over time. It is the user's responsibility to stay up-to-date on regulatory requirements.

There is no official IPM program or recordkeeping form that must be used in order to comply with the IPM regulatory requirements. Under current law, you may design a program and forms that are best suited to your needs and that meet the requirements of the law. You are advised to refer to Public Act 451 of 1994, Part 83, Pesticide Control *and* to Regulation 637, Pesticide Use for information pertaining to regulatory requirements for pesticide use in firms covered by the IPM requirements. These laws can be downloaded from MDARD's web site.

This program is intended to serve as a **model** for you to develop your own program. While it is believed that this program serves as an effective model, MDARD does not endorse any specific IPM program. Please feel free to use any or all of the information in this sample IPM program and change it to best suit your individual situation. Be advised that you are responsible for ensuring that your program meets the regulatory requirements.

Special Notice:

Several portions of this IPM Program are not complete. The site evaluation must be done on a case-by-case basis and written specifically for your facility. The site evaluation should include a description of the site (i.e., each area of the facility such as cafeteria, office areas, classrooms, boiler room, etc). The site description may be written, or may be a site map, or both. The site should be inspected and evaluated for pest management options. The section titled "Site Evaluation" in the attached sample will help guide you through this process. Over time, you may need to revise the site evaluation to better suit the needs of the facility. Note that the user will need to fill in the facility name and address and add or modify other information in certain parts of this sample IPM program.

While it is not currently required by Act 451, Part 83 or by Regulation 637, Pesticide Use, you are advised to include pesticide labels and material safety data sheet (MSDS) forms for pesticide products that are used in association with this program.

If you have questions regarding pesticide regulations, you may contact MDARD at 800-292-3939.

Integrated Pest Management Program For

(Name & Address of Facility Here)



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Introduction

Integrated Pest Management (IPM) is a pest management system that utilizes all suitable techniques to prevent pests from reaching unacceptable levels or to reduce an existing population to an acceptable level. An emphasis is placed on manipulation of the pest environment to the point that it will not support a pest population.

Two Michigan Laws, the Natural Resource and Environmental Protection Act, Public Act 451 of 1994, Part 83, Pesticide Control *and* Regulation 637, Pesticide Use require that certain conditions must be met prior to making a pesticide application (other than sanitizers, germicides, disinfectants, or anti-microbial agents) in schools, day care facilities, public buildings or health care facilities. These conditions include:

1. The pesticide applicator must have been trained under an approved IPM program.
2. There must be a verifiable IPM program in place for the building.

ONLY QUALIFIED INDIVIDUALS MAY APPLY PESTICIDES AT THIS FACILITY.

PLEASE READ THIS MANUAL CAREFULLY AND FOLLOW APPROPRIATE PROCEDURES BEFORE MAKING ANY PESTICIDE APPLICATIONS AT THIS FACILITY.

Be advised that violations of Michigan's pesticide use laws are misdemeanor offenses and are punishable by administrative fines of up to \$1,000 per count, or, upon a conviction in a court of law, may be punishable by fines of up to \$5,000 per count and/or imprisonment. Be advised that the Michigan Department of Agriculture and Rural Development (MDARD) is the enforcing agency for pesticide use requirements and MDARD may conduct routine unannounced inspections to verify compliance with IPM requirements.

This IPM program is intended to help reduce the incidence of pest infestation and to reduce the need for chemical pesticide applications. It is intended to satisfy the regulatory requirement of having an IPM program in place for the building. *Note: in a situation where there are multiple buildings, the program will include a site description and evaluation for EACH building. In accordance with The Natural Resources and Environmental Protection Act, Act 451 of 1994, Part 83, Section 8316(1), a person shall not apply a pesticide in a school or day care center unless the school or day care center has an integrated pest management program in place for the building.* MDARD interprets this to mean that each building must have a verifiable (written) program within the building.

Acronyms used in this program include:

IPM	Integrated Pest Management
EPA	Environmental Protection Agency
MDARD	Michigan Department of Agriculture and Rural Development
PA	Public Act

Key Terms

Certified

Applicator: A person authorized to use and supervise the use of a restricted use pesticide. You must receive a passing score on one or more certification exams administered by MDARD to become a certified applicator.

Commercial

Applicator: A person who is not a private agricultural applicator (i.e., a farmer, or someone growing a crop for an agricultural purpose) and who meets one of the following conditions:

- a. **who is required to be a registered technician or certified applicator under this part (see note below).**
- b. who uses or supervises the use of restricted use pesticides.
- c. who holds themselves out to the public as being in the business of applying pesticides.

Note: PA 451, section 8314 requires a person to be a certified applicator to apply any pesticide (other than a sanitizer, disinfectant, bactericide or general-use ready-to-use product), other than for a private agricultural purpose, in the course of their employment.

Commercial

Building: Any portion of a building that is not a private residence where business is located and that is frequented by the public.

Concentration:

The volume of pesticide formulation and the volume of carrier used to create an end use dilution.

Day care

Center: A facility, other than a private residence, which receives 1 or more preschool or school-age children for care for periods of less than 24 hours a day, at which the parents or guardians are not immediately available to the child, and which is licensed as a child care organization by the Michigan Department of Human Services.

General Use

Pesticide: A pesticide that may be purchased by an individual who is not required to be a certified applicator.

Health Care

Facility: A facility that is not a private home and at which people may stay one or more nights and receive medical care, such as a hospital or nursing home.

Integrated Pest Mgt.:	A pest management approach that uses all suitable techniques in a total management system to prevent pests from reaching unacceptable levels or to reduce existing populations to acceptable levels.
Pest:	An insect, rodent, nematode, fungus, weed, or other form of terrestrial or aquatic plant or animal life or virus, bacteria, or other microorganism, or any other organism that the director of the MDARD declares to be a pest under PA 451, Part 83, Section 8322, except viruses, fungi, bacteria, nematodes or other microorganisms in or on living animals.
Pesticide:	A substance or mixture of substances intended for preventing, destroying, repelling, or mitigating pests or intended for use as a plant regulator, defoliant, or desiccant. Note that products such as Weed-and-Feed, RoundUp, or Raid are pesticides.
Public Building	A building that is owned or operated by a federal, state, or local government, including public universities.
Ready-To-Use Pesticide:	A pesticide which is applied directly from its original container consistent with label directions, such as an aerosol insecticide or rodent bait box, which does not require mixing or loading prior to application. Granular weed-and-feed products applied using rotary or drop spreaders are NOT considered to be ready-to-use and for nearly all situations an applicator applying the product as part of their non-agricultural work duties must be certified to use it.
Registered Applicator:	A classification of applicators authorized to apply general use pesticides for a commercial or private purpose as a scheduled and required work assignment.
Threshold Level	The level of pest numbers or pest infestation that can be tolerated.

Administration

Regulations

Laws concerning pesticide use in schools, day care centers, public buildings, and medical care facilities can be found in:

Public Act 451 of 1994, Part 83, Pesticide Control

Regulation 636, Pesticide Applicators

Regulation 637, Pesticide Use

These laws can be downloaded from the Michigan Department of Agriculture and Rural Development (MDARD) web site located at www.michigan.gov/mdard. Type the appropriate Act or Regulation into the search engine and follow the links to get a copy, or you may contact MDARD at 800-292-3939.

Communication – Sighting Log

Proper implementation of an Integrated Pest Management (IPM) program requires careful administration. It is important for the building manager and administrative staff to communicate with the pesticide applicator(s) to ensure full implementation of the IPM program. To meet this goal, a Pest Sighting Log and recordkeeping data will be used as part of the communication process. The building manager will ensure that pest sightings are recorded in the log. A form is included with this manual.

Applicator Credentials

A person who applies a pesticide (other than a sanitizer, germicide, disinfectant, or anti-microbial agent) in schools, public buildings or health care facilities **MUST** have been IPM trained using training approved by MDARD. Approved IPM training includes use of MDARD's self-study manual and/or attendance at an MDARD approved IPM training session. IPM training credentials do not expire, so the training only needs to occur once. The IPM training manual is available online at www.michigan.gov/mdard. Go to the web site, type in "IPM" into the search box found in the upper right corner and follow the links to the appropriate information.

Outside contractors who conduct pesticide applications at this facility, other than use of a sanitizer, germicide, disinfectant or anti-microbial agent, must be **licensed** and **certified**. Business license information can be found at the MDARD web site identified above to verify that the commercial applicator holds a valid pesticide applicator business license.

Persons who are employees of this facility and who have obtained their IPM training certificate may use a *general-use ready-to-use product* (see definitions section) in compliance with State of Michigan regulations without being certified or registered. However, whenever possible, pesticide applications should be conducted by the person responsible for pest control in this facility or by a licensed and certified professional applicator.

Persons who use a pesticide product at this facility which is NOT ready-to-use, other than a sanitizer, germicide, disinfectant, or antimicrobial agent, *must* be a commercially certified or registered pesticide applicator. Examples of situations where the applicator must be commercially certified or registered include:

- When pesticides are mixed and applied from a compressed air sprayer such as a hand-can or backpack sprayer.
- When pesticides such as weed-and-feed are put into a granular spreader, such as a lawn weed-and-feed spreader, for application.

Pesticide Applications and Personal Protective Equipment

Pesticide applications for non-emergency situations shall only be conducted by an applicator who has obtained their IPM training certificate and shall be made in accordance with this IPM program.

Applications must be made in a manner that is consistent with the pesticide label directions, as required by State and Federal law. The applicator shall use personal protective equipment that is appropriate relative to the potential exposure and as required by the pesticide label. Persons who apply pesticides at this facility, other than general-use ready-to-use pesticides are commercial pesticide applicators.

Minimum personal protective equipment for commercial pesticide applicators includes long pants, protective footwear, gloves that are impervious to the pesticide being applied (when contact with the hands is likely), and long-sleeve clothing. Short-sleeve clothing may be worn if soap and water is immediately available and a long-sleeved shirt is not required by the pesticide label.

Pesticide Application Records

Records shall be maintained on forms provided by the building manager or by the licensed and certified professional pesticide applicator. A sample form is included in this manual. Records shall contain at least the following information:

1. Site address and the location of the areas or room(s) where pesticides are applied.
2. The date of service.
3. The target pest(s).
4. An inspection report, including the number of pests found or reported (this information may be found in the sighting log), and the conditions conducive to pest infestation.
5. Pest management recommendations made by the applicator, such as structural or habitat modification.
6. Structural or habitat modifications or other measures initiated as a part of the IPM program.
7. The brand name, EPA registration number, concentration and total amount of pesticide(s) used.
8. The name of the applicator.
9. The method and rate of application.

Pesticide Use In and Around Schools & Day Care Centers

This section contains information regarding parental notification and applications of pesticides made in and around public or private school or day care property.

1. Annual Notification to Parents / Guardians

Within 30 days of the beginning of each school year, the primary administrator for the school district or his/her designee, shall provide written notification to parents (or guardians) of children attending the school that they will receive notification before any pesticide application, other than a bait or gel formulation, is made to the school property. For day care centers, the notice shall be issued in September of each year. The notice shall be on a form that contains statements informing parents (or guardians) that pesticides may periodically be applied to school or day care property and that parents (or guardians) will be notified of such pesticide applications. The form will state that in the case of an emergency, such as an infestation of stinging insects, pesticides may be applied without prior notice, but that notification will be provided after the emergency application occurs.

This annual notification shall be in writing and shall specify 2 methods by which advance notice of the applications of a pesticide will be given at least 48 hours before the application. The first method shall be by posting at the primary points of entry to the school or day care center. Subject to a request from the parent or guardian for notification by first class US mail, the second method shall be by at least 1 of the following methods:

- a. Posting in a public, common area of the school or day care center, other than an entrance.

- b. E-mail.
- c. A telephone call by which direct contact is made with a parent or guardian of a student of the school or a child under the care of the day care center or a message is recorded on an answering machine.
- d. Providing the students of the school or children under the care of the day care center with a written notice to be delivered to their parents or guardians.
- e. Posting on the school's or day care center's website.

The annual notice shall state that in addition to the methods of notice provided above, parents or guardians are entitled to receive the notice by first-class US mail postmarked at least 3 days before the application, if they so request, and the manner in which such a request shall be made.

For a school, the notice shall state that parents and guardians may review the school's IPM program, if any, and may review records on any pesticide applications.

A sample form for the annual notification is included in this manual.

2. Advance Notice of Pesticide Use

As stated in the annual notification to parents / guardians, the Advance Notice of Pesticide Use must be delivered at least 48 hours prior to the anticipated treatment (or postmarked at least 3 days before the treatment for those who request notice by first class mail) and the notice must be delivered in the manner(s) described in the annual notice to parents / guardians.

The Advance Notice of Pesticide Application form shall contain the following information:

- a. A statement that a pesticide is expected to be applied.
- b. The target pest(s).
- c. The approximate location of the application.
- d. The date of the application
- e. The name, telephone number, and if available, e-mail address of a contact person at the school or day care center responsible for maintaining records with specific information on pest infestation and actual pesticide application as required by rules.
- f. A toll free telephone number for a national pesticide information center recognized by the Michigan Department of Agriculture and Rural Development (MDARD) and a telephone number for pesticide information from MDARD. A toll free telephone number for a national pesticide information center is National Pesticide Information Center at Oregon State University 800-858-7378 with a web site of www.npic.orst.edu. The telephone number for MDARD is 800-292-3939 and the MDARD web site is found at www.michigan.gov/mdard.

Note that the advance notices must be provided to parents / guardians of students enrolled at a school or day care center, *even during periods of vacation or holidays*. An example of a form that can be used to meet this purpose is shown on page #11 of this program manual.

3. Restrictions Pertaining to Pesticide Applications at Schools

As required by Michigan law under Act 451, Part 83, Pesticide Control, Section 8316(6) and under Regulation 637, Rule 15, there are certain restrictions pertaining to use of pesticides at schools, including the following:

- a. Liquid spray or aerosol insecticide applications shall not be made in a room of a school building unless the room will remain **unoccupied for at least four hours** UNLESS the product label requires a longer reentry period, in which case the more restrictive requirement must be met.
- b. Liquid spray pesticides used for turf or ornamental applications may not be made on school grounds within 100 feet of occupied classrooms during normal school class hours or when persons are using the treatment area.
- c. The pesticide applicator shall notify the school's building manager of any reentry periods that are required by the product label.

IPM Program Evaluation

The IPM program shall be evaluated on a continual basis to determine the program's effectiveness and the need for program modification. The IPM program should contain the initial site evaluation and a continual record of inspections and pesticide applications. These documents can be evaluated to determine the success of the IPM program. If the evaluation does not indicate improvement or continuation of an acceptable pest level, then the IPM program should be revised to reach an acceptable level of pest control.

Posting

When making an application of pesticides, *other than a general-use ready-to-use pesticide*, a commercial applicator shall place the appropriate signs or markers at the primary point or points of entry. It is the responsibility of the building manager (or his/her designated representative) to ensure that the appropriate signs are posted.

Indoor Insecticide Applications

The primary point or points of entry must be posted with the appropriate signs. Postings shall remain for at least 48 hours after the most recent application of insecticide. Posting signs must be in compliance with Regulation 637, Rule 11(4). Signs shall be at least 2 ½ inches square and shall depict a house surrounded by a cloud. The date shall be placed on the sign. See the rule for additional details on sign requirements. Please note that treatments using a general-use ready-to-use product are exempt from the posting requirement. The posting should be similar to the item depicted in illustration #1 or #2 below.



Illustration # 1

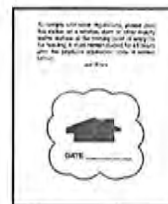


Illustration # 2

Note that for a school or day care center, the school will only post the advanced notice of pesticide use at the primary point(s) of entry as described in section #2 of this manual titled "Pesticide Use In and Around Schools & Day Care Centers".

Ornamental or Turf Applications

The primary point or points of entry must be posted. Postings shall remain at least 24 hours. Postings will be in compliance with Regulation 637, Rule 11(2). Signs shall be at least 4" high by

5” wide and shall depict a picture of an adult and child walking a dog on a leash. The illustration shall depict, using a diagonal line across the circle, that this action is prohibited. See the rule for additional details on sign requirements. The sign must be in compliance with the requirements of Regulation 637, Rule 11(2). It will look similar to the sign shown below, with the sign having the same information on both sides of the sign.



Illustration # 3

Pest Management Strategy and Pest Biology

Strategy

This IPM program involves the use of available methods or strategies to control pests including sanitation, exclusion, reservoir reduction, harborage reduction and population reduction. These terms are clarified below:

1. Sanitation refers to a reduction of the food and water resources that are attractive to pests. By minimizing the resource of food and water available to the pests, we can greatly reduce the number of pests without the application of pesticides.
2. Exclusion refers to the use of caulk, mortar, screens or similar materials that can reduce or eliminate the entry of pests into the building.
3. Reservoir reduction refers to techniques such as removing a pest attraction feature, such as moving a dumpster a distance away from the building so that pests attracted to the dumpster are not brought close to the building.
4. Harborage reduction refers to elimination of habitat that provides a home (or harborage) to pests. For example, cleaning old equipment from a storage room will reduce harborage for mice. Mowing grass around a building will reduce the cover and harborage for pests.
5. Population reduction refers to means of control such as mechanical traps, use of repellents, or use of toxicants to drive away or kill pests. Chemical or biological pesticides may be utilized to reduce pest populations.

Impact on Human Health & Environment

When considering methods to utilize for pest control, the building manager shall consider the impact of human health and the environment. The pest control method shall consider the effectiveness of the treatment for pest reduction while striving for the lowest level of adverse impacts on human health and the environment.

Pest Biology Information

The method used for pest control shall take into consideration the relationship between pest biology and pest management methods, giving due consideration to the impact on human health and the environment. When chemical controls are necessary, this program will attempt to use products that are least toxic to human health and the environment, while remaining effective in control of the target pest(s).

Some common pests and pest control measures are described below. **It is vital that you identify the pest prior to implementing controls.** For example, pest control measures to control one type of cockroach or ant may be ineffective for another species of cockroach or ant. Some actions taken for ant control can even *promote* the spread of the ants if the ant species is not properly identified. Pest identification should be confirmed by a reliable source, such as use of keys in pest identification manuals (found on the Internet or in reference books), by consultation with a professional pesticide applicator, or by using a service such as the Michigan State University Extension Service.

A brief biology of some pests follows. Additional information can be found using pest identification books, the Internet, referencing the MSU General Pest Management Certification Study Manual, or consulting a professional.

Pavement Ants



This ant is 1/10th to 1/16th inch long and has two nodes on its pedicel. Their antenna has 12 segments. They are active foragers and establish trails along baseboards and other areas inside structures. They can easily move between floors using plumbing lines, which not only provide movement between floors, but also into the structure itself. The ants feed on a wide variety of foods including pet food, food bits dropped on the floor, grease, and seeds. These ants commonly invade buildings through cracks in cement slab floors and exterior walls. Exclusion through sealing of the cracks is an effective means of control. Exterior perimeter treatments may also provide effective control. If ants still invade the building, baits are an effective means of control.

Carpenter Ants



Carpenter Ants vary in size and color but are usually blackish in color and range in size from 1/4" to 1/2" in size. If winged carpenter ants are seen swarming in the spring, it may mean that there is a colony nesting in the structure. They can be distinguished from termites by the carpenter ant's slender waist. Termites have a wider waist. Carpenter ants look for sites with wet wood to build their nests. Ants inside a structure may be from a nest located within the structure. However, the ants may be foraging for food and may be from a nest outside of the structure. Carpenter ants tend to forage at night. You may place some food, such as a dab of honey, to bait the ants. Then, watch where the ants go. If they're going behind a baseboard or into a wall void, then attempt to determine if they're nesting in that location or if they're passing through the structure to an outside nest. Apply an appropriate pesticide. Baits are an effective means of control.

Roaches (general information)

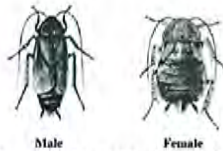
Roaches can carry germs and disease. Sanitation and reduction of harborage are important in reducing the incidence of roach infestation. Glue boards may be used to detect the presence of roaches. Where roaches are found, baits can be an effective means of control. Crack/crevice/void treatments may also be used.



German Cockroaches

Female German cockroaches carry an egg capsule with 30-40 eggs, producing 4-8 egg cases in her lifetime. That can be over 300 offspring from one female roach and if not controlled the population could explode to as many as 100,000 roaches in one year! German roaches prefer dark places with warmth and high humidity. They prefer harborage where they can fit closely.

Oriental Cockroach



Adult Oriental cockroaches are 1 inch to 1 ¼ inch in size. They are shiny and range from dark brown to black in color. Their wings are not functional. Immature roaches, called nymphs, are darker in color than adults, but have a similar shape. Egg cases are dark reddish-brown and about an inch long. This roach is also known as the “water bug” and feeds on garbage and filth. It prefers a moist environment, so it may be found near leaky pipes or in a moist basement or crawl space. They may live outside during summer months and migrate indoors during cold weather.

Mice



Mice may enter buildings to seek shelter. Exclusion and reservoir reduction are effective means of control. Keep weedy fields mowed. Move dumpsters away from the building. Clean the area of any debris that offers harborage. Use exclusion methods such as screens, caulk, and door sweeps. To eliminate mice present in the building, it is preferable to use mechanical methods such as traps or glue boards. Baits can be an effective tool, but should be used only with extreme caution and should NEVER be used in areas accessible to students.

Head Lice



Head lice generally do not survive for more than a few hours when away from a host. Due to the biology of lice, insecticidal treatments to the school or day care center are generally not effective and should not be done. Instead, parents should be informed about the pest biology and given instruction for effective control measures on hosts (children) and garments such as hats that may be shared between students. For more information visit www.headlice.org.

Flies and Gnats

There are MANY types of flies and gnats. Proper identification is vital to determine the best type of pest control. Proper sanitation can provide effective control for most flies and gnats. Screen windows and doors to exclude these pests. Garbage containers should be closed and kept an appropriate distance from the buildings. Insecticides may be appropriate for reducing large populations of adult flies, but sanitation is the preferred means of control.

Other Pests

Other pests such as yellow jackets, hornets, and carpenter ants may occur. In all cases, the relationship between the pest biology and effective control measures must be considered.

Site Evaluation - An Example

Note: This page is only an example! It describes how to conduct the site evaluation. This page is to be replaced by the actual site evaluation and information pertaining to how and when monitoring will occur.

Each building where pesticides are applied must be identified by name and address. Provide a short description of the use of the building and any known pest problems. Each building should be identified through a written description, or preferably by using an attached map. The site evaluation must include recommended types of inspection and monitoring schedules. An example for a school follows:

STATE OF MICHIGAN MIDDLE SCHOOL
123 Main Street, Lansing, MI 48909

This is a middle school, grades 6 to 9, with approximately 400 students. The school has had an occasional rodent and ant problem in the past. The initial site inspection was conducted and the findings of the inspection are provided on the attached school map dated _____ (date of inspection).

The IPM program requires routine monitoring and inspection, which will be done by the school's head of maintenance as identified below.

Kitchens, Break Rooms, Cafeteria, Home Education Room

Visual inspection with a particular emphasis on cockroach and rodent infestations. Look for droppings, gnawing, harborage or insanitary conditions. Monitoring devices such as glue boards may be used. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when not in session.

Bathrooms, Locker Rooms, Store Rooms and Closets

Visual inspection. Bathrooms and locker rooms may be attractive to roaches. Look for droppings and/or egg cases. Monitoring devices such as glue boards may be used. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when not in session.

Classrooms and Hallway

Visual inspection. Recommended to monitor on a weekly basis during periods when school is in session and bi-weekly during periods when not in session.

Boiler Room, Maintenance Area

Visual inspection. Monitor for rodents and insects with glue boards or traps. Monitor on bi-weekly basis.

Exterior Areas

Monitor periodically. Look for entry points into the building. Look for areas that can serve as a reservoir for pests such as weedy areas or accumulations of debris.

Pesticide Recordkeeping Form

LOCATION & INSPECTION INFORMATION

Location: _____

Date: _____

Pests Noted:

Conditions Conducive To Pest Infestation:

Pest Management Recommendations Made By The Applicator:

Structural or Habitat Modifications Undertaken:

APPLICATION INFORMATION

Name of Pest Control Firm (If Employed) & Emergency Phone Number:

Target Pest(s): _____ # Of Target Pests Found or Reported: _____

Name of Applicator: _____ Certification/Registration #: _____

Name of Pesticide(s) [Brand or product name]: _____

EPA Reg #(s): _____ Active Ingredient(s): _____

Concentration of Pesticide(s) Applied (i.e., the amount of formulated material & the amount of carrier used to make the end-use dilution): _____

Total Amount of Pesticide(s) Used: _____

Method of Application (ex: pump sprayer, spreader, etc.): _____

Rate of Application (ex: #/1,000 ft², to point of run-off, etc.): _____

Restricted Entry Interval: _____

Location Where Pesticide(s) Applied [Written description or map]:

Notes:

Advisory To Parents / Guardians

Dear Parent or Guardian:

State of Michigan law requires that schools and day care centers that may apply pesticides on school or day care property must provide an annual advisory to parents or guardians of students attending the facility.

Please be advised that the _____ school / day care center utilizes an Integrated Pest Management (IPM) approach to control pests. IPM is a pest management system that utilizes all suitable techniques in a total pest management system with the intent of preventing pests from reaching unacceptable levels or to reduce an existing population to an acceptable level. Pest management techniques emphasize sanitation, pest exclusion, and biological controls. One of the objectives of using an IPM approach is to reduce or eliminate the need for chemical applications of pesticides. However, certain situations may require the need for pesticides to be utilized.

As required by State of Michigan law, you will receive advance notice regarding the non-emergency application of a pesticide such as an insecticide, fungicide or herbicide, other than a bait or gel formulation, that is made to the school or day care grounds or buildings during this school year. Please note that notification is not given for the use of sanitizers, germicides, disinfectants or anti-microbial cleaners. In certain emergencies, such as an infestation of stinging insects, pesticides may be applied without prior notice to prevent injury to students, but you will be notified following any such application.

Advance notification of pesticide applications, other than a bait or gel formulation, will be given by at least 2 methods. The first method will be by posting at the main entrance to the school / day-care center, which is located at _____. The second method will be by the method(s) checked below:

- Posting in a public, common area of the school or day care center, other than an entrance. We will post in the _____.
- E-mail.
- A telephone call by which direct contact is made with a parent or guardian of a student of the school / day-care center or a message is recorded on an answering machine.
- Providing the students of the school or children of the day-care center with a written notice to be delivered to their parents or guardians.
- Posting information on the school or day-care center's web site.

Please be advised that parents or guardians of children attending the school or day care center are entitled to receive the advance notice of a pesticide application, other than a bait or gel formulation, by first class United States mail postmarked at least 3 days before the pesticide application, if they so request. If you prefer to receive the notification by first class mail, please complete the attached form and return it to our office.

Please be advised that parents or guardians of children attending the school may review the school's Integrated Pest Management program and records of any pesticide application upon request.

REQUEST FOR ADVANCE NOTIFICATION BY FIRST CLASS MAIL

Dear Parent / Guardian:

Complete this form **ONLY** if you are requesting advance notification of a pesticide application by United States Postal Service first-class mail.

Please be advised that you **WILL** receive notice via the methods identified in the annual advisory notice and should only complete this form if you are also requesting notification by first-class mail.

If you are requesting prior notification of pesticide treatments conducted at this school or day care center, other than a bait or gel formulation, and you would like the notice to be delivered by United States Postal Service first-class mail, postmarked at least 3 days prior to the planned treatment, please complete the information on the following form and submit it to:

(ENTER SCHOOL NAME, ADDRESS, CONTACT PERSON AND PHONE NUMBER HERE)

I wish to receive a prior notice of any pesticide application to the school or day care center by first-class mail.

PARENT NAME: _____

STUDENT NAME: _____

STREET ADDRESS: _____

CITY, ZIP _____

DAY PHONE # _____

EVENING PHONE # _____

Please Check One:

- I wish to be notified prior to a scheduled pesticide application inside of the school building.
- I wish to be notified prior to a scheduled pesticide application on the outside grounds of the school building.
- Both of the above.

Signature

Date

ADVANCE NOTICE OF PESTICIDE TREATMENT

This notice is to be provided whenever a pesticide, other than a bait or gel formulation, is to be applied at this facility. The information will be posted using the methods identified in the annual Advisory To Parents.

Attention: Parents / Guardians of students attending this facility:

This facility utilizes an Integrated Pest Management approach for pest control, employing non-chemical methods that include sanitation and exclusion to control pests. However, from time to time a pesticide application may be necessary to control certain pests.

Please be advised that a pesticide is expected to be applied to control _____.

The approximate location of this pest control treatment is _____.

The anticipated date of treatment will be _____.

If you have questions pertaining to this treatment, please contact:

Name:

Phone:

E-mail:

For further information pertaining to pesticides you can contact the National Pesticide Information Center at Oregon State University. The toll free number is 800-858-7378. The web site is www.npic.orst.edu.

For additional information pertaining to pesticide use, you can contact the Michigan Department of Agriculture and Rural Development (MDARD). The MDARD's web site is www.michigan.gov/mdard and a contact phone number for MDARD is 800-292-3939.