



## Canyons School District Integrated Pest Management (IPM) Plan

Revised May 2022

#### **Policy Statement: Integrated Pest Management**

Canyons School District is committed to providing safe, clean, healthy, well-maintained buildings for our students, staff and the public. To this end and in accordance with Utah Admin. Code R392-200-7 (12) See Appendix A, it is the policy of Canyons School District to manage pests in and around schools in a manner that protects human health, maintains the integrity of school buildings and grounds, and preserves the environment.

Canyons School District is committed to the sustainable management of pests through the use of sound Integrated Pest Management (IPM) that focuses on <u>eliminating pest access to food, water, and shelter</u> in and around our schools. This is accomplished through the use of reduced-risk pest control methods with a preference for non-chemical control measures. Sanitation, pest exclusion, and habitat modification are essential to successful long-term pest mitigation. Facilities will be regularly cleaned and repaired in order to prevent pest infestations. All facilities and grounds will be maintained to be free of trash, debris, and clutter. Ornamental plants, turf, and desirable grasses will be managed in a manner that limits animal, plant, and microbial pest attraction.

While pesticides may be used to remediate infestations of pests such as insects and rodents that may be found in the facility and its surrounding grounds, every effort will be made to manage pests using non-chemical methods first, but, when needed, least-toxic pesticides may be used to help bring pests to below threshold levels. We believe that through the education of our District personnel Canyons School District can limit the unnecessary use of chemical pesticides minimizing their impact on people and the environment.

#### **Definition of Integrated Pest Management:**

Integrated Pest Management (IPM) is an ecologically based management strategy that provides long-term solutions to pest problems with minimum impact on human health and the environment. IPM is heavily reliant upon monitoring for possible pests, pest prevention through education of faculty and staff, improved sanitation, and mechanical means such as pest-proofing buildings.

#### Oversight and Management:

Canyons School District will actively manage the pesticide safety and IPM program by establishing a committee whose responsibilities include providing guidance, education, and support on program procedures and processes. Members of the IPM Committee will be appointed by the district and will include: a district-level administrator, the IPM Coordinator, the IPM Trainer/Inspector, an IPM Site Coordinator, a nursing services representative, a nutrition services representative, a facilities administrator, a maintenance department representative, and a grounds department representative. Other members may be appointed to meet the needs of this policy. They will meet semi-annually, or more frequently as required, to address the components of this policy.

An **IPM Coordinator** will be appointed by the District leadership to provide oversight and implementation of the pesticide safety and IPM program. The IPM Coordinator is the key advisor to the District and is responsible for: the development and management of appropriate plans, pest control contract oversight, the conduct of training on pesticide safety and IPM principles and practices to District and school staff, records management, and providing guidance and recommendations on current regulations, procedures, and products used in managing pest populations. The IPM Coordinator will be trained in the principles of Integrated Pest Management and pest control contract oversight, completing a minimum of eight (8) contact hours of training annually on the subject.

The **IPM Trainer** is responsible for district-wide IPM training of faculty, staff, students, parents, vendors, contractors, the IPM Inspector, and IPM Site Coordinators.

The **IPM Inspector** is responsible for semi-annual inspections of all district facilities and is a resource for the IPM Site Coordinator.

The **IPM Site Coordinator** is responsible for the IPM program on the school/facility level, manages the day-to-day activities of the IPM program, and reports to the IPM Coordinator when necessary.

#### Pesticide Safety and IPM Plan:

The IPM Coordinator will revise the IPM Plan based on IPM records taken and what the IPM Site Coordinators and the IPM Coordinator have learned. The IPM Coordinator will then submit the final draft to the District leadership for review and comment and submission to the Board of Education. The plan will address and detail the components of the District Policy, list approved low hazard/toxicity products and methods by pest and discuss the decision-making process for any pest mitigation effort, including methods for monitoring, reporting pest sightings, action levels for the use of pesticides and a list of all environmentally sensitive areas that may be impacted by the District's pest management activities. Pests will be listed in order of medical or health risk importance to assist in prioritizing pest mitigation efforts based on risk to students, staff, and the community. The IPM Coordinator, in coordination with the designated District nurse, will develop and include appropriate action steps in the program plan for each pest of public health importance deemed a probable risk e.g. head lice, bed bugs, fire ants, etc.

Wherever possible a non-chemical method of eliminating pests will be used <u>first</u>. Those methods may include:

- Education of faculty, staff, students, parents, vendors, contractors, etc.
- Identification and removal or repair of conditions that are conducive to pests.
- Structural repair and sealing.
- Improved sanitation.
- Removal of clutter or harborage.
- Elimination of food sources.
- Exclusionary measures to protect doors, windows, and any other opening to the outside against the
  entrance of insects, rodents, and other animals. See Appendix B.
- A no-action alternative shall also be considered in cases where the pest has no public health or property damage significance e.g., ladybugs, praying mantis, etc.
- If it is determined that more action is required, either the properly trained school-level IPM Site Coordinator
  may apply a District approved control chemical or the District approved Pest Management Professional
  (PMP) will be notified.

#### **Pesticide Use:**

When reasonable non-chemical approaches do not provide adequate control, products that pose the least risk to people and the environment will be selected, and then only used when and where pests are present or expected to be present, as determined by monitoring and action thresholds and approved by the IPM Coordinator. Pesticide applications will not be made on a routine or regularly scheduled basis. The use of pesticides with acute toxicity categories 1 through 3 (1 being acutely toxic, 5 being least toxic) should be avoided. In documented emergency situations where the presence of a pest immediately threatens the health or safety of students, staff, or members of the public using the facilities, the IPM Coordinator may consider the use of pesticide products that do not fit the above criteria.

#### Approved Chemical List:



A list of approved chemicals will be maintained at each school/facility by the IPM Site Coordinator and by the district IPM Coordinator and must be readily available for inspection. All Safety Data Sheets (SDS) will be maintained by the IPM Coordinator and copies located in every IPM Site Coordinator's IPM Binder. Updates to the approved list and SDS will be made before the chemical is used in any Canyons School District facility. See Appendix C.

#### **Certified Pesticide Applicators:**

Only Utah-certified pesticide applicators and Pest Management Professional (PMP) trained in Integrated Pest Management would apply pesticides with acute toxicity categories 1 through 3 on Canyons School District properties.

Under no circumstances should students, teachers, or other non-approved school staff store or use pesticides. Absolutely no outside (unapproved chemicals) should ever be stored or used in Canyons School District. Unapproved faculty and staff that store pesticides can have those products taken from them on-site by the IPM Coordinator, IPM Trainer, IPM Inspector, or IPM Site Coordinator.

The following personnel are the only ones who are authorized to apply any pest control chemical in schools with acute toxicity categories 4 through 5 or with the signal words 'Warning' and 'Danger':

- 1. IPM Site Coordinator, typically the Assistant Facility Manager. This person may only store and use District approved chemicals in limited (small, localized infestation) circumstances.
- 2. District IPM Coordinator, IPM Trainer, or the IPM Inspector.
- 3. The District approved Pest Management Professional (PMP).

#### **Pest Management Professional (PMP):**

The IPM Coordinator or IPM Site Coordinator using non-chemical techniques will manage most pest issues. Occasionally, certain pest situations will occur where a Pest Management Professional (PMP) must be contracted to handle the pest issue. Canyons School District will create a contract that will meet the requirements of the District's IPM policy and plan.

#### Any PMP working with Canyons School District shall:

- 1. Be made aware of Canyons School District's IPM Plan and program.
- 2. Will make accommodations in line with the Canyons School District's school IPM Policy and plan.
- 3. Will **not** apply pesticide without consulting with the IPM Coordinator prior to **any/all** pesticide application.
- 4. Will **not** make routine, time, or calendar-based pesticide applications.
- 5. Will avoid the use of broadcast applications in favor of spot treatments, when/where needed.
- 6. Will set procedures for timely response to pest sightings.
- 7. Will only apply pesticides that the IPM Coordinator and the PMP have agreed upon in advance and that are listed in the Approved Pesticides List found in the IPM Site Coordinator's IPM Binder.
- 8. Will provide Safety Data Sheet (SDS) documents to the IPM Site Coordinator and IPM Coordinator of any product the company wants to apply (requires prior approval before application).
- 9. Will keep detailed records of pesticide use, and will give a copy of those records to the IPM Site Coordinator for their records. See Appendix E & G.
- 10. Will not use any pesticide classified as acutely toxic (category 1) by the EPA without prior approval.
- 11. Will not use any pesticide unless all ingredients in the product have been evaluated by the EPA and found to include no possible, probable, known, or likely human carcinogens; no reproductive toxicants; no known, probable, or suspected endocrine disruptors; and no nervous system toxicants (either cholinesterase inhibitors or listed as neurotoxins by the Toxics Release Inventory). A pesticide will not be used if the facility does not have information on its ingredients, including inert ingredients.
- 12. All ingredients in pesticides used by the facility shall have a soil half-life of 30 days or less.
- 13. Properly applied gel bait or tamper-resistant containerized bait can be an exempted application if it represents the least hazardous treatment option.
- 14. Will give specific recommendations to correct Pest Conducive Conditions (PCCs).
- 15. Will facilitate proper posting and notification of all pesticide applications with the IPM Site Coordinator.
- 16. Will promote the appropriate least-hazardous methods to correct pest problems.
- 17. All applicators should be properly licensed and supervised by knowledgeable, highly trained personnel.

#### **Notification:**

It is the general practice of Canyons School District to provide at least 24-48-hour prior notice of pesticide application via posting in the main office of each location except when pests pose an immediate concern to students, staff, or guests. For emergency applications where an imminent threat to health exists e.g., stinging insects, students, staff, and parents/guardians will be notified within 24 hours after the pesticide application.

Turf/grounds notification of application of pesticides/herbicides will also be posted in the main office as well as through placement of lawn signs on the treated areas. *See Appendix D.* 

#### Posting:

Pesticide application sites will be posted with highly visible signage during and at least 24-48 hours after all pesticide applications. Postings will be labeled with the date of application, pest treated for, the pesticide used, applicator name, certification number of the applicator, phone number of applicator/company, and date/time reentry is authorized if required. For emergency applications where an imminent threat to health exists e.g., stinging insects, postings must be placed as soon as practical, with a preference to no later than the start of the pesticide application. *See Appendix D.* 



#### **Exclusion:**

Pesticides will not be applied when persons, other than pesticide applicators, are present or are expected to be present. All persons other than the pesticide applicators will be excluded from the treated site for at least eight (8) hours after the completion of any pesticide application, or as prescribed by the pesticide label, whichever is longer.

#### **Exemptions:**

This policy does not apply to the following exempted uses of products:

- 1. The use of insecticide or rodenticide baits in pre-manufactured, tamper-resistant containers such as bait blocks, but must be labeled with all other posting requirements on the exterior of each container. Such containers should be limited to areas inaccessible to children.
- 2. Insecticide baits in gel or paste form are placed in cracks and crevices inaccessible to children.
- 3. Germicides, disinfectants, bactericides, sanitizing agents, water purifiers, and chemicals used in normal cleaning activities.

#### **Record Keeping:**

Records will be maintained by the IPM Site Coordinator of all monitoring and mitigation efforts, including all inhouse and contracted pesticide applications, and copies of the pesticide applicators' certifications for at least three (3) years after the date of the activity. Records documenting the use of all pesticide applications will include the applicator's name, the product name, the product's EPA registration number, quantity used, date and time of application, location, application method, and the targeted pest. These records must be readily available for inspection. The IPM Coordinator will also maintain records of training given to staff, continued education training taken, and exterior agency audits on environmental health, sanitation, and safety as they pertain to pesticide safety and pest mitigation for at least three (3) years from the date given or published and must be readily available for inspection. See Appendix E, F & G.

#### **Education & Training:**

Canyons School District will train all District personnel about IPM and depending on their responsibility for it and adjust the training for each employee group e.g. the IPM Site Coordinator will receive different training than kitchen staff. Training of personnel is critical to the success of the Canyons School District pesticide safety and IPM program. Staff, students, and the public will be educated about pest problems associated with school settings, the components of IPM, the District Policy, their roles in achieving pest-free schools, and procedures.

#### The District IPM Trainer under the direction of the IPM Coordinator will provide all training curriculum.

- **Custodians** and IPM Site Coordinators will be tested to demonstrate they have a minimum level of IPM proficiency and receive a minimum of four (4) hours of IPM training annually.
- **Nutrition Services** staff should be trained a minimum of one (1) hour annually on the components of IPM and how their efforts towards sanitation impact pest infestations. This training will include, but is not limited to, the following topics:
  - Food handling and preparation areas are among the most vulnerable areas, and safe food preparation requires a good understanding of IPM.
  - Should understand the importance of good sanitation and proper food storage.
  - Keep all food areas free of crumbs and food residue after use.
  - o Inspect the kitchen on a regular basis (interval to be determined by IPM Coordinator).
  - Nutrition staff will submit an icPests Sighting Report at <a href="http://icpests.canyonsdistrict.org">http://icpests.canyonsdistrict.org</a> whenever pests are detected in the kitchen and food service areas.
  - Manage specific pest problem(s) as directed by the IPM Site Coordinator.
  - o The IPM Coordinator will be responsible for training the kitchen staff in proper sanitation procedures.
  - The IPM Site Coordinator will train the kitchen staff in the pest detection and monitoring program in place in the kitchen.
- Facilities Maintenance personnel should be trained a minimum of one (1) hour annually on the components of IPM and how their efforts at sealing the building envelope and repairing water leaks impact pest infestations. This training will include, but is not limited to, the following topics:
  - Responsible for recognizing and correcting conditions that may lead to pest problems, such as water leaks, potential pest entryways, plants too close to buildings, etc.
  - It is essential that all grounds and maintenance staff be adequately trained to recognize and prevent pest problems and follow IPM principles.
  - Should report pest issues to IPM Site Coordinator whenever pests or signs of pest activity are discovered in the school building or are a problem on facility grounds.
  - Manage specific pest issue(s) as directed by the IPM Coordinator.
  - Grounds staff will be trained in accepted horticultural practices grounded in IPM.
- **Teachers and Administrative** staff should be trained a minimum of one (1) hour annually on the components of IPM and how their efforts for clutter removal and general classroom/office sanitation impact pest infestations. This training will include, but is not limited to, the following topics:
  - o Be familiar with the signs and symptoms of pesticide poisoning.
  - Should understand the importance of good sanitation and proper food storage.
  - Will not touch, move, or disturb sticky traps or other pest monitoring devices.
  - o Be aware of any children or staff with asthma or chemical sensitivities.
  - Serve as a resource for IPM information for school staff, children, and parents.
  - o Keep an inventory of students with hypersensitivities to honey bees, etc.
- **Students** should be provided direct and supplemental education/information on the District's IPM program, and how they contribute to the success of the program. This will include, but is not limited to, the following topics:
  - Avoid leaving food or clutter in lockers, classrooms, and common areas, and avoid eating food or drinking soft drinks in areas other than areas designated for food consumption.
  - Will not touch, move, or disturb sticky traps or other pest monitoring devices.
- All Personnel should be trained on how to identify and report pest problems and conditions that lead to pest infestations. This training will include, but is not limited to, the following topics:
  - Shall not use pesticides.
  - Will not touch, move, or disturb sticky traps or other pest monitoring devices.

IPM

When we all learn to think "pests" as we go about our daily tasks, we will deny pests access to <u>food</u>, <u>water</u>, and <u>shelter</u>, and make our schools unattractive to pests.



#### Pest Identification:

When a potential pest problem is identified by a school employee, student, or member of the public, via the use of pest monitors, or via icPests Reporting website, it will be up to the IPM Site Coordinator to identify the pest and determine the most effective means of managing the situation. Pest identification will be done with the help of literature, the District approved pest control professional, or through USU Extension Services.

#### **Pest Monitoring Procedures:**

Pest monitoring will be accomplished on a regularly scheduled basis in known Pest Vulnerable Areas (PVAs) and additionally on an as-needed basis as possible pest problems are identified. Monitoring will also be accomplished when evidence of pests is observed e.g., droppings, webs, and nests. As needed, rodents will be trapped in a manner that does not allow them to leave the area. Arthropods (insects, spiders) will be trapped in approved capture glue traps to determine population. Areas such as kitchens, vending areas, faculty rooms, locker rooms, custodial areas, etc. will have ongoing monitoring. *See Appendix F.* 

Additional pest monitors may be used for different types of pests and in different situations (e.g. sticky monitors, glue traps, mechanical mouse traps, outside rodent bait stations, rodent bait stations with non-toxic bait blocks for monitoring, insect pheromone traps, flying insect traps, light traps and visual inspections).

The number of pest monitors depends on building size, number of PVAs, pest issues, pest type, etc. but generally Elementary Schools are 10 to 20, Middle Schools are 15 to 30, and High Schools are 20 to 40.

#### **Pest Reporting:**

Pest reporting on a school level will be accomplished via the complainant notifying either the school level IPM Site Coordinators or through the icPests Reporting website. <a href="http://icpests.canyonsdistrict.org">http://icpests.canyonsdistrict.org</a> The IPM Site Coordinator will then determine, based on their training, the best course of action. If the pest sighting is determined to be a localized problem (ants, flies, etc.) the IPM Site Coordinator may determine that a physical or sanitation change is sufficient to solve the problem. If not, a small, one-time application of a District-approved insecticide may be needed. The electronic report on icPests still must be submitted. Emergency pest issues may require a phone call to the District IPM Coordinator's office. In that case, the IPM Coordinator, IPM Trainer or IPM Inspector will then determine the best course of action to manage the problem.

#### Inspections:

IPM inspection of all pest monitoring stations will be conducted monthly by the IPM Site Coordinator in all Canyons School District Facilities and a detailed IPM inspection of all facilities will be conducted semi-annually by the IPM Inspector, IPM Trainer, or IPM Coordinator. Inspections will include the entire building and grounds, paying particular attention to Pest Vulnerable Areas (PVAs) such as kitchens, cafeterias, kindergarten rooms, art supply rooms, custodial supply rooms, school stores, vending areas, and storage areas. The IPM Inspector, IPM Trainer, and IPM Coordinator will work closely with the IPM Site Coordinator (Assistant Facility Manager) and Administration to correct any issues and with school Kitchen Managers to address any issues in kitchens. Additionally, follow-up inspections will be conducted as needed until all pest issues are stabilized or resolved. See Appendix H.

#### **Action Thresholds:**

An Action Threshold is a point at which an IPM technician takes action to reduce a pest's numbers. Action Thresholds for Canyons School District are based on five factors: economics, health and safety concerns, aesthetic concerns, public opinion, and legal liability. Action Thresholds can be difficult to determine and sometimes require close monitoring to determine if a threshold has been met.

#### The five determining factors are:

#### 1. Economics

In high numbers, carpenter bees can seriously damage unfinished wood decking and trim. It can be expensive to protect this wood from carpenter bee attacks by treating and sealing it. But it can be far more expensive to have to replace that wood after carpenter bees have damaged it.

#### 2. Health and Safety Concerns

Action thresholds are set low when health or safety is at stake.

#### 3. Aesthetic Concerns

Aesthetic damage occurs when the appearance of something is degraded. Examples include bird droppings on sidewalks, defoliation or flower damage to landscape plants, and disease spots in lawns.

#### 4. Public Opinion

Certain pests are seen as more disgusting, scarier, or otherwise worse than other pests. Most people are less willing to tolerate a cockroach than a cricket, a mouse than a pigeon. Providing information about pests and beneficial organisms, and the risks and benefits of control can sometimes modify a person's tolerance of a particular pest.

#### 5. Legal Concerns

Pests in commercial and institutional kitchens are regulated under state and county health codes. There is little tolerance for cockroaches, ants, mice, and other pests anywhere food is stored, prepared, or served, so action thresholds are typically low. Safety and building standards, rather than IPM considerations, may determine when action is necessary to control termites, rats, flies, and other pests in schools. During public health emergencies, government agencies may legally mandate control of certain pests, such as raccoons or skunks during rabies outbreaks, or mosquitoes during encephalitis outbreaks.

#### Canyons School District Action Threshold Examples, Not an Inclusive List.

Ants (common house-infesting)	
Classrooms, offices and other public areas:	5 ants per area
Kitchens, cafeteria and other indoor eating areas:	2 ants per area
Maintenance and storage areas:	5 ants per area or 100 sq. ft.
Outside grounds:	2 field ant mounds per sq. yard

Bats (any variety)	
Indoors:	Any bat sighting indoor requires IPM action
Outdoors:	Any noticeable activity, hanging under eves or droppings
If bats are noticed flying near school but not roosting they should be monitored to determine numbers and any roosting activity.	

Bees (honey, bumble, carpenter)	
Indoor areas:	1 bee per area
Outside grounds:	No action necessary unless hive is present or threating
Trashcan / dumpster areas:	1 bee per area

Yellow Jackets / Hornets	
Indoor areas:	1 yellow jacket or hornet per area
Outside grounds:	1 yellow jacket or hornet if individuals are being threatened
Trashcan / dumpster areas:	10 yellow jacket or hornets per 10 minutes
IPM action necessary if nests are present near student activity areas	

Cockroaches	
Classrooms, offices and other public areas:	2 cockroaches per area
Kitchens, cafeteria and other indoor eating areas:	1 cockroach per area
Maintenance and storage areas:	5 cockroaches per area
Outside grounds:	No action necessary unless noticeable infestation

If 2-10 cockroaches per room, apply cockroach bait. If 10 or more, track down infestations, review sanitation, trash handling, clutter, etc., open equipment, check inaccessible areas. Vacuum and otherwise clean room and apply baits or other insecticides as necessary.

Crickets	
Classrooms, offices and other public areas:	3 crickets per area
Kitchens, cafeteria and other indoor eating areas:	2 crickets per area
Maintenance and storage areas:	10 crickets per area
Outside grounds:	No action unless causing problems

House Flies	
Classrooms, offices and other public areas:	3 flies per area
Kitchens, cafeteria and other indoor eating areas:	1 fly per area
Maintenance and storage areas:	5 flies per area
Outside grounds:	No action unless causing problems
Trashcan / dumpster areas:	10 flies per area

Mice	
Indoors:	Any mouse sighting or evidence of mice droppings etc.
Outdoors:	Any noticeable burrows or activity in student areas

Pigeons	
Roof ledges:	10 per building for three consecutive inspections
Any area:	Nests obstructing gutters or equipment
Sidewalks / entranceways:	Whenever droppings accumulate more than 1"

Rats	
Indoors:	Any rat sighting or evidence of rat droppings etc.
Outdoors:	Any active burrows or activity

Silverfish	
Library and wherever books, paper, files are stored:	1 per area
Other indoor areas:	2 per area



Spiders	
Classrooms, offices and other public areas:	1 spider per area
Kitchens, cafeteria and other indoor eating areas:	1 spider per area
Hallways:	2 spiders per area
Maintenance and storage areas:	3 spiders per area
Outside grounds:	Only if in large numbers or causing problems
IPM action necessary if a black widow is suspected in any area	

	Ticks		
	Outdoor student activity areas:	1 tick, any species	
Outdoor wooded and other areas of low student activity: keep grass and weeds trimmed. If any blacklegged ticks			

Outdoor wooded and other areas of low student activity: keep grass and weeds trimmed. If any blacklegged ticks found, treat wood edges. For other species, take action if moderate to heavy populations.

#### **Head Lice Policy:**

Pesticide applications to the facility for head lice are ineffective and thus are prohibited by this policy. An informational fact sheet on head lice will be provided for staff, teachers, and parents. Non-chemical control options (combs, etc.) are indicated in the literature.



#### **Bed Bug Policy:**

Bed Bugs do not generally survive well in a school environment. If bed bugs are suspected in a school this would trigger IPM action immediately. School staff can dramatically decrease the chance of an infestation by eliminating clutter. The most important action school personnel can take is to eliminate the clutter that provides harborage for bed bugs and makes inspection, monitoring, simple bed bug removal, or any other treatment option difficult. Do not jump to conclusions! Know the difference between an introduction and an infestation. Sighting a few bed bugs does not indicate infestation but rather an introduction. Infestation is defined as having the entire lifecycle pest present from eggs to adults.

#### **Commitments:**

This policy covers all indoor and outdoor areas used by students, staff, and the community. Canyons School District recognizes that pest management is best accomplished through partnership and the use of multiple control tactics. Therefore, we are committed to accepting the advice of Pest Management Professionals (PMP) and conducting ongoing maintenance, inspections, monitoring, and remediation in a timely manner.

All Facilities owned by Canyons School District will designate a building IPM Site Coordinator. That person, under the direction of the IPM Coordinator, is responsible for all designated IPM activities in each facility. Questions from parents and staff about IPM and this policy should contact the District IPM Coordinator.

#### **Resources:**

Canyons School District IPM website:

http://www.canvonsdistrict.org/custodialgrounds/integrated-pest-management-ipm

icPests Reporting website:

http://icpests.canyonsdistrict.org

#### **Contact Information:**

#### **IPM Coordinator**

Kevin Kelson 9100 South 500 West Sandy, UT 84070 801-826-5175

Kevin.Kelson@CanyonsDistrict.org

#### **IPM Trainer**

Todd Muir 9100 South 500 West Sandy, UT 84070 801-826-5128 Todd.Muir@CanyonsDistrict.org

#### **IPM Inspector**

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#### **IPM Inspector**

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#### **IPM Site Coordinators**

Individual Building Assistant Facility Managers



#### Utah Administrative Code R392-200 7(12) Pest Management.

- (a) The governing body shall minimize in school buildings or on school grounds the presence of pests that are vectors for disease, carry allergens that are likely to affect individuals with allergies or respiratory problems, or may sting or bite causing mild to serious reactions in some individuals.
- (b) The governing body shall adopt integrated pest management (IPM) practices and principles to prevent unacceptable levels of pest activity with the least possible hazard to people, property, and the environment.
- (c) The governing body shall have a written integrated pest management plan written by the governing body or provided by the contracted pest management contractor whether IPM is implemented as an internal process or contracted to a pest management professional. The plan shall include sections that cover the following topics: an IPM policy statement; IPM implementation and education; pest identification, monitoring procedures, reporting and control practices; approved pesticides; procedures for pesticide use; a policy for the notification of students, parents, and staff; and applicator requirements. Guidance for an IPM plan can be found in publications of the IPM Institute of North America. The Department or the Local Health Officer may require changes in a school's IPM plan if the plan neglects or causes a threat to the health or safety of the occupants of a school.
- (d) The governing body shall use non-chemical management methods whenever possible to provide the desired control. The governing body shall use a full range of control alternatives including: identification and removal or repair of conditions that are conducive to pests; structural repair and sealing; improved sanitation; removal of clutter or harborage; elimination of food sources; exclusionary measures to protect doors, windows and any other opening to the outside against the entrance of insects, rodents, and other animals. A no-action alternative shall also be considered in cases where the pest has no public health or property damage significance.
- (e) If the governing body chooses to not use a contracted pest control contractor, school personnel who apply pesticides shall follow the Utah Dept. of Agriculture pesticide regulation R68-7. The applicator shall apply all products according to the pesticide label directions.





## INTEGRATED PEST MANAGEMENT DESIGN CONSIDERATIONS FOR SCHOOLS

Developed in consultation with Safer Pest Control Project, Gregg Smith (Salt Lake City School District) and David L. Shangle B.C.E., Dalsh Consulting

Below are general design and construction guidelines for discouraging a variety of arthropod and vertebrate pests. You can establish more specific guidelines by determining the pests that are typical in your area, and undertake building design with them in mind.

#### 1) Entrance Ways -

- a) Outside doors outfitted with door sweeps that fit snugly against the threshold and are flush with the doorframe on both sides. Sweeps can be either the brush or rubber variety.
- b) Weather-stripping on doorframe along both sides and top of frame.

#### 2) Windows -

- a) Incorporate windows that can accommodate screens.
- b) Screens that are taught, without tears, and sealed tightly around the frame with a gasket.
- c) Use aluminum, 10 mesh or smaller (aluminum can be stretched more tightly).
- d) Weather stripping around window frame for a tight seal.
- 3) Caulking/Sealing eliminate holes, cracks, crevices, and gaps:
  - a) Larger Holes (pipe openings, etc.): stuff steel wool inside, and then fill with mixed cement or quality butyl caulk.
  - b) Smaller Openings: should be caulked and/or sealed using elastomeric silicone sealant.
    - Throughout Building: along baseboards, floor and wall joints, window and door moldings, edges of electrical outlet covers. and radiator covers.
    - ii) Pipes/Wiring: around all water, electrical pipes, cable and/or other wires coming into a unit.
    - iii) **Kitchen/Bathroom:** around sink edges, where cabinets and countertops meet walls (particularly under the sink), between cupboards and countertops.
- 4) Landscaping trees, shrubs, and ornamentals that are:
  - a) At least 1'away from the building.
  - b) Spaced far enough apart for 1' separation at full growth.
  - c) Leaves, branches that have some ground clearance.
- 5) Outside Air Intakes/Vents screened with 10 mesh or smaller; fabricated and installed to be easily removed for cleaning. Area to consider:
  - a) Foundation Vents: many vents are constructed with screens; one should be fabricated for those that are not.
- 6) Floor Drains Course mesh screens or floor sink baskets should cover drains or sunken floor drain baskets. Covers or baskets must be removable for cleaning. Install trap guards to keep crawling pests from crawling out.

#### **General Design Tips**

#### Avoid:

- ✓ Nooks and flat ledges
- ✓ Lights above doorways; use reflected light to illuminate doorways
- Vegetation against the building (this includes grass)
- ✓ Pipes, electrical conduits, or hoses against walls
- Pipes entering drains that prevent drain maintenance
- ✓ Inaccessible drains under fixed kitchen equipment
- ✓ Equipment legs in inaccessible corners (corner-cleaning must be as easy as possible)

#### Limit:

Alcove areas, which gather debris and serve as pest harborage areas

#### Use:

- Sloped or rounded decorative ledges and/or window frames
- Outdoor lights positioned away from entrances
- ✓ Non-vegetative boarders against buildings (gravel, etc.)
- ✓ Downspouts should be mounted 4-6 inches from building sides using spacers
- ✓ Concrete turf boarders at turf level so grass mowers can mow over them
- Self-closing trash cans which are elevated off the ground and set in a concrete slab

#### Build Pests Out so we can keep our kids in!



## Integrated Pest Management Approved Chemical List, Monitors/Traps and Safety Data Sheets



#### **Canyons School District Available Products**

Victor® Tin Cat® Mouse and Insect Glue Board M309
Catchmaster® PRO SERIES Mouse & Insect Glue Boards #60M
Combat® Source Kill 4 Ant Bait Station
Maxforce® FC Ant Bait Stations
Green Thumb® Roach, Ant & Spider Killer, 15-oz. Aerosol
Green Thumb® Wasp & Hornet Spray, 7.5-oz. Aerosol
Spectracide® Commercial Wasp & Hornet Killer
Electrically non-conductive, dielectric breakdown voltage of 47,100 volts
4-Speed® XT Herbicide
ALOFT® LC G Broad Spectrum Contact and Systemic Insecticide
Gly Star® Plus Glyphosate Herbicide, 2-1/2 Gallons
MEC AMINE-D® Post-Emerge Broadleaf Herbicide for Weed Control in Turfgrasses

#### Pest Management Professional (PMP) Available Chemicals

Maki<sup>®</sup> Mini Blocks Rodenticide Maxforce<sup>®</sup> Complete Brand Granular Insect Bait Omni Supreme Spray Pyrethrum Micro Total Release Insecticide Suspend<sup>®</sup> SC Advanced-Generation Pyrethroid TALSTAR<sup>®</sup> Professional Insecticide

# INTEGRATED PEST MANAGEMENT (IPM)

## NOTICE OF PESTICIDE APPLICATION

For further information regarding this notice please contact Canyons School District's IPM Coordinator's office at 801-826-5114

The following pesticide will be/ha	as been used at this locatio	n:	
Pesticide Common Na	ame	Pesticide Trade Name	3
**** Pesticide labels and S	SDS (Safety Data Sheets)	are available upon re	quest ****
A pesticide application is schedu	ıled for/was performed on:	Date	Time
Area(s) of the pesticide application	on:		
Reason for the pesticide applicat	tion:		
Pesticide application to be/was p	performed by:	Company Name if applicable	<b>:</b>
License Number	Phone Number	Applic	cator's Name

Canyons School District is committed to providing safe, clean and healthy, well-maintained buildings for our students, staff and the public. In accordance with Utah Admin. Code R392-200-7 (12), it is the policy of Canyons School District to manage pests in and around schools in a manner that protects human health, maintains the integrity of school buildings and grounds, and preserves the environment.

#### **Definition of Integrated Pest Management:**

An ecologically based management strategy that provides long-term solutions to pest problems with minimum impact on human health and the environment. IPM is heavily reliant upon monitoring for possible pests, pest prevention through education of faculty and staff, improved sanitation and mechanical means such as pest-proofing buildings.

## Appendix: E



## Integrated Pest Management Pesticide Use Form



This form is to be completed by the IPM Site Coordinator or PMP only

## **Applicator and Location Information**

A call and a share a			
Applicator Name:	Middle Initial		Last
Do you have a Utah pesticide application license?	Yes No Circle One	If yes, then:	icide Application License #
Application Address:			
Street Address		C	ity
Facility Name		Location of	f Application
Application Date & Time:			
Month	Day	Year	Time
Pesticide Use Information		Pest Informat	ion
Total Amount Used (Dilution, or RTU)	Target	Pest Type (e.g., Fly, Beetle, Was	sp, Ants, Spider)
Rate of Formulation Applied Per Unit Area (Undiluted Pesticide Product as Sold by the Manufacturer, or RTU) OR Number of Devices Used (Bait Stations, etc.)	(German Coc	Specific Pest kroach, Carpet Beetle, Hobo Spi	der, Pavement Ants, etc.)
	-	Life Stage: Egg, Larva/Nymph,	Pupa, Adult
Site of Application (e.g., Structural Voids, Cracks and Crevices, Baseboards, etc.) The label must list the application site of use.		Analization Na	
Pesticide Label Information	J	Application No	otes
Brand Name / Product Name			
Active Ingredients			
EPA Pesticide Registrtation Number(s)			

### Appendix: F



## Integrated Pest Management Pest Monitoring Log



This form is to be completed by the IPM Site Coordinator only

Facility	IPM Site Coor	IPM Site Coordinator		Location	Date Placed
Date Checked	Pests Present (ID.)	Action Taken*	Date Checked	Pests Present (	(ID.) Action Taken*

#### \*Actions:

- 1 No change, continue to monitor trap
- 2 New pest, increase monitoring
- 3 New pest, handle locally

- 4 New pest, icPest Work Order
- 5 New pest, call IPM Inspector/Trainer
- 6 Damaged or missing trap

### Appendix: G



## Integrated Pest Management Pesticide Application Log



This form is to be completed by the IPM Site Coordinator only

	Facility		IPM Site Coordinator		
Date & Time of Application	Application Location	Target Pest	Pesticide Used	Amount Used	Notice Posted

#### Note:

- Pesticides with acute toxicity categories 4 through 5 or with the signal words 'Warning' and 'Danger' should only be applied by the IPM Site Coordinator, IPM Inspector, IPM Traininer, IPM Coordinator or a District approved PMP.
- · Notice of Pesticide Application must be posted 24 hours before application and remain posted for 24 hours after application.
- Notice of Pesticide Application's must be stored in this section of the IPM Binder.

## Appendix: H



## Integrated Pest Management Inspection Form



Kitchens / Food Prep Areas

Facil	ity IPN	1 Site Coordinator	Inspected By	Date		
1.	Food Handling and Storage A	Areas				
				Yes	No	N/A
1a.	Ensured all food is stored in se	ealed containers no tr	aces of food on outside surfaces	. 🗆		
1b.	Verified there is no long term	storage of items in ca	rdboard boxes	. 🗆		
1c.	Ensured disposed of food scra	ps properly and remo	ve crumbs	. 🗆		
1d.	Verified food storage areas ar	e clean and clutter fre	e	. 🗆		
1e.	Verified all storage is kept off	the floor and on open	type shelving	. 🗆		
1f.	Ensured all floors are properly	swept and wet mopp	ped daily and after spills	. 🗆		
2. (	Cooking / Prep Area					
				Yes	No	N/A
			ating areas	. 🗆		
2b.		•	odors, leaks, back-drafting, or			
2c.	Ensured that exhaust fans are	used whenever cooki	ng, washing dishes, and cleaning.	. 🗆		
2d.	Determined that gas appliance	es function properly		. 🗆		
2e.	Verified that gas appliances ar	e vented outdoors		. 🗆		
2f.	Ensured all counters are clean	ed with soap & water	then disinfected (2 steps)	. 🗆		
2g.	Verified under sinks and equip	oment are kept clean	and clutter free	🗆		
3. (	General					
2-	Varified area is free of consumb	o wi- o d w o o+: o: d o o		Yes	No	N/A
			datad			
			dated	. Ц		
3C.	Checked storage, cooking, pre		_	_	_	_
24	• • •	-				
			t)	. ⊔		
3e.			from air intake vents, operable	_	_	_
J.f		-	······································			
			ir			
_			ith no gaps			
		_	eaks			
3i.			aps are full	. ⊔		
3j.	Determined there are no signs			_	_	_
21.		-	e, and algae)			
			o the outside			
31.			perly			
			ase and/or dust			
			p when not in use (off the floor)			
3p.	Ensured that food preparation	n, cooking, and storag	e practices are sanitary	. 🗆		

## Appendix: H cont.



## Integrated Pest Management Inspection Form



Classrooms / Faculty Room / Offices

Facil	lity	IPM Site Coordinator	Inspected By	Date			
4. (	Classrooms			Yes	No	N/A	
<b>4</b> a	Verified room is free	of unauthorized pesticides				IN/A	
		·	ınd dated				
			_				
	d. Verified storage is free of items stored for long term in cardboard boxes						
	-		ontainers				
		•	ee of food				
_			plastic containers				
4i.			rrounding areas				
4j.							
4k.	Verified outside wind	dows/doors have screens and o	close tight with no gaps	🗆			
41.	Ensured trashcans ar	e clean and emptied daily (nev	ver left over night)	🗆			
4m.	. Verified area is free o	of open holes or other access t	o the outside	🗆			
4n.	Verified any cracks in	n walls or floors are sealed prop	perly	🗆			
40.	Verified area is free of	of plumbing and ceiling leaks		. 🗆			
4p.	Verified carpet is in g	good repair, vacuumed and cle	aned regularly	🗆			
4q.	Verified area is free of	of cloth couches or chairs		🗆			
<b>5.</b>	Faculty Room / Offic	ces					
	•			Yes	No	N/A	
5a.	Verified room is free	of unauthorized pesticides		🗆			
5b.	Verified any pest mo	nitors present are numbered a	and dated	🗆			
5c.	Verified room is free	of excessive clutter		🗆			
5d.	Verified storage is fre	ee of items stored for long terr	n in cardboard boxes	🗆			
5e.	Verified all food item	ns are stored in sealed plastic c	ontainers	🗆			
5f.	-						
_			close tight with no gaps				
			ver left over night)				
			o the outside				
			perly				
5l.			2				
			ing, washing dishes, and cleaning.				
			and clutter free				
		•	d d				
5r.	-	-	aned regularly				
<b>5</b> S.	verified area is free of	of cloth couches or chairs		🗆			

## Appendix: H cont.



## Integrated Pest Management Inspection Form



Grounds / Entranceways / HVAC Areas

Faci	lity	IPM Site Coordinator	Inspected By	Date		
6.	Grounds			V	<b>N</b> 1 -	N1 / A
62	Varified any post man	itars prosent are numbered a	nd dated	Yes	No	N/A
			eds, and trash			
	_					
		σ ,	of standing water			
	<u> </u>		away from building			
			, wasps nests etc			
			sts out			_
_			from air intake vents, operable	_	_	_
	-			🗆		
6i.			operly cleaned and maintained			
6j.	•		ks (properly sealed)			
-	-		·ly			
7.	Entranceways and Ve	estibules				
_				Yes	No	N/A
			nd dated			
	_	· · · · · · · · · · · · · · · · · · ·	nd kept closed when not in use			
			completely cover the door			
		_	re sealed			
_			o the outside			
7f.		<u> </u>				
_		_	ortal to also and			
			quickly cleaned			
7i.	verified carpet is in go	ood repair, vacuumed and cie	aned regularly	⊔		
8.	Boiler Rooms / Fan R	ooms / Mechanical Rooms				
				Yes	No	N/A
		·				
			nd dated			
			nd kept closed when not in use			
	-		completely cover the door			
		_	re sealed			
8f.		· ·	o the outside			
_		_				
			and and full			
8i.			aps are full			
8j.			nd free of trash			
			ent, floors, walls etc			
oı.	verilleu area is regula	rry creamed including equipme	:111, 110013, walls Ell	⊔		

## Appendix: H cont.



## Integrated Pest Management Inspection Form



Restrooms / Locker Rooms / Custodial Areas

Facilit	у	IPM Site Coordinator	Inspected By	Date		
9. R	estrooms / Locker R	ooms				
				Yes	No	N/A
		unauthorized pesticides				
		tors present are numbered an				
		ht, fully close on their own				
	-	and other weather stripping co				
	·	nings around doors or walls are				
		open holes or other access to				
_		plumbing and ceiling leaks (in				
		standing water				
		and sinks are clean and P-trap				
-		no signs of microbiological gro			_	_
	• • • • • • • • • • • • • • • • • • • •	me, and algae)				
		excessive clutter				
		ed daily (never left over night)				
9m. \	Verified area is regular	ly cleaned including showers,	floors, walls, fixtures etc			
10. (	Custodial Closets / S	upply Rooms / Receiving Ar	ea			
	•	11, , ,		Yes	No	N/A
10a.		of unauthorized pesticides				
10b.	Verified any pest mo	onitors present are numbered	and dated			
10c.	Verified area is free	of any food or beverages				
10d.	Verified doors shut t	ight, fully close on their own a	nd kept closed when no	t in use 🗆		
10e.	Verified door sweep	s and other weather stripping	completely cover the do	or		
10f.	Verified cracks or op	enings around doors or walls a	are sealed			
10g.	Verified area is free	of open holes or other access	to the outside			
10h.	Verified area is free	of plumbing and ceiling leaks				
10i.	Ensured that exhaus	t fans are operating properly				
10j.	Verified all floor dra	ins and sinks are clean and P-ti	aps are full			
10k.	Ensured trash is emp	otied daily (never left over nigh	nt)			
10l.	Verified area is free	of excessive clutter				
10m.	Verified all storage i	s kept off the floor and on ope	n type shelving			
10n.	Verified wet mops/o	lust mops are clean and hung i	up when not in use (off t	he floor). 🗖		
10o.	Verified that custod	al cart/barrel trash is emptied	daily, kept clean and sar	nitary 🗆		
10p.		re no signs of microbiological g		•		
•		slime, and algae)				
10q.	• •	of cloth couches or chairs				
10r.		larly cleaned including equipm				