

**Dennis-Yarmouth Regional High School**  
**OUTDOOR INTEGRATED PEST MANAGEMENT (IPM) PLAN**  
210 Station Avenue  
Yarmouth, MA 02664

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**IPM Coordinator**

Steven Faucher

**Primary Contact**

Sandra J. Cashen, 508-398-7670, [cashens@dy-regional.k12.ma.us](mailto:cashens@dy-regional.k12.ma.us)

Dennis-Yarmouth Regional High School employs Steven A. Faucher an on-site certified and/or licensed pesticide applicator (certification/license #: 32715) who may be called on to manage all or some of the necessary OUTDOOR pest problems that may arise.

By signing the end of this outdoor IPM plan, the IPM coordinator, Steven Faucher, of this School and the Pest Management Professionals described above acknowledge, and agree to the terms of this OUTDOOR integrated pest management plan.

**A. INTRODUCTION**

In compliance with the Act Protecting Children and Families from Harmful Pesticides the Dennis-Yarmouth Regional High School on 10/12/2018 10:33:00 AM has prepared the following outdoor IPM plan about pest control and pesticide use.

This plan describes the pest management practices for outdoor areas of Dennis-Yarmouth Regional High School and clearly states it's pesticide use policies.

A copy of the plan has been filed with the Massachusetts Department of Agricultural Resources (MDAR), and at least one printed copy must be kept on site and made available to the public upon request.

By centralizing all of the information about this facility's pest management practices the plan serves as a guide to direct this facility's IPM coordinator, Steven Faucher

**Objectives**

The objectives of the integrated pest management program conducted at the Dennis-Yarmouth Regional High School are listed below.

- Reduce children’s exposure to pesticides and pesticide residues whenever possible.
- Manage pests that may occur on facilities to prevent interference with the learning environment of the students.
- Provide the safest playing or athletic surfaces possible.

In light of these objectives, the Dennis-Yarmouth Regional High School has selected the following as it’s IPM policy statement.

**B.POLICY STATEMENT**

The Dennis Yarmouth Regional School District desires to prevent unnecessary exposure to children and employees to chemical pesticides and reduce the need to rely on chemical pesticides. when managing pests. It is the policy of the Dennis Yarmouth Regional School District to only use chemical pesticides when pests have been identified and their presence verified. Selection of treatment option or corrective actions will give priority to non-chemical actions whenever possible to provide the desired control of pests. Education of staff, students, employees and parents about IPM will be included to achieve desired objectives. When it is determined that pesticides are needed, only those allowed by the Children’s and Families Protection Act will be used. Further, only certified and/or licensed individuals will be able to use pesticides. Our policy prohibits the use of any pesticide by unlicensed staff. It will be the school policy to make the appropriate notification and posting as well as keep records of all pesticide use. A copy of the IPM plan will be maintained on the maintenance website <http://www.dy-regional.k12.ma.us/district/facilities/pages/pest-management>. There will be a hard copy in the building’s main office.

**C. IPM COMMITTEE**

The tasks set before an IPM committee are to:

- Develop an IPM plan. The IPM plan is in essence, a document that describes the organization and implementation of IPM on school grounds.
- Evaluate progress of the IPM program.
- Communicate about IPM - Facilitate communication within the school about IPM practices.
- Assist in development of contract specifications.
- Provide notification to parents about pesticide use.

**The OUTDOOR committee members selected for the Dennis-Yarmouth Regional High School are listed below:**

- 1) Steven Faucher (Outdoor IPM Coordinator)
- 2) Sandra Cashen
- 3) Steven Faucher

**D. COMMUNICATING IPM WITHIN THE FACILITY**

**Pest Management Personnel to Building Staff:**

IPM Coordinator will meet directly with Asst. Facility Mgr. in-house applicator when necessary to cover monitoring reports. An initial meeting was held on November 1, 2013, to establish a pest activity log binder. The log binder will be established online. The sheet will indicate identification of pest (if known), number seen, date, time, and location. The In-House applicator will be responsible for notifying the IPM Coordinator of logged pests seen on site. The In-House Applicator will respond to the log complaints. If any sanitation or structural or operation changes are noted, it will be written in the log along with remedial recommendation. Specific service reports will be maintained on the maintenance website <http://www.dy-regional.k12.ma.us/district/facilities/pages/pest-management> that documents particular actions taken by In-House applicator.

Staff/Students communicate with their supervisors who then pass information onto the IPM coordinator.

**E. EDUCATION AND TRAINING OF FACILITY OCCUPANTS & STAFF**

Principals, P.E. teachers, and Athletic Directors will be instructed on how to log pest complaints and be given a brief overview on pest identification and the conditions that promote the pests. Pamphlets and fact sheets will be made available on the facility website. This information will focus on pest reduction strategies. More specific training will be held annually and separately for Asst. Facility Mgr., Maintenance Laborers, P.E. Teachers and Athletic Directors.

**F. OUTDOOR MONITORING**

The IPM plan will follow a Quarterly evaluation schedule. When pests are present, Dennis-Yarmouth Regional High School has chosen an **OUTDOOR monitoring schedule that consists of Monthly inspections**. When pests are absent the **OUTDOOR monitoring schedule will consist of Monthly inspections**.

The following technique will be used to monitor for pests: The In-House Applicator will conduct regular pest monitoring and will instruct the IPM Coordinatoras to the proper course of action.

**G. COURSE OF ACTION TAKEN FOR OUTDOOR PESTS**

Outdoor property includes the turf, landscaping, and the outdoor grounds such as building exterior, playground equipment, etc.. Dennis-Yarmouth Regional High School has prepared maps of the outdoor facility and identified the following priority areas for maintenance:

**Landscaping**

Dennis Yarmouth High School has historically observed. 1. Pests 2. Weeds 3. Funguses 4. Wasps and Hornets 5. Mosquitoes All have been found in and on the athletic fields. The pests have been identified as Japanese Beetle Grubs Wasps and Hornets ( Yellow Jackets). The weeds have been identified as clover, dandelions, crabgrass and plantain. The funguses have been identified as leaf spot, pink snow mold, gray snow mold, dollar spot and red thread. All of which appear during the growing season. The presents of these pests, weeds and funguses have been seen and identified by the Asst. Facility Mgr.

**OutdoorGrounds**

Athletic fields

The following pests have historically and/or currently been a problem at Dennis-Yarmouth Regional High School:

<b>TURF PESTS</b>	<b>LANDSCAPING AND PLANT PESTS</b>	<b>OUTDOOR GROUNDS PESTS</b>
	<b>Insects and Related Pests</b>	<b>Pests</b>
	Gypsy Moth	Ants
		Mosquitoes & Flies
		Stinging Insects
	<b>Weeds</b>	
	Crabgrass	<b>Insects in playground area (if applicable)</b>
	<b>Tree and Shrub Diseases</b>	Yellow Jackets
	Blight	<b>Other</b>
	<b>Other</b>	
	Bees, hornets, wasps.	

### LANDSCAPE MANAGEMENT PLAN

The following areas are priority areas for maintenance: Dennis Yarmouth High School has historically observed. 1. Pests 2. Weeds 3. Funguses 4. Wasps and Hornets 5. Mosquitoes All have been found in and on the athletic fields. The pests have been identified as Japanese Beetle Grubs Wasps and Hornets ( Yellow Jackets). The weeds have been identified as clover, dandelions, crabgrass and plantain. The funguses have been identified as leaf spot, pink snow mold, gray snow mold, dollar spot and red thread. All of which appear during the growing season. The presents of these pests, weeds and funguses have been seen and identified by the Asst. Facility Mgr.

### Cultural Practices

#### **Monitoring Program:**

Current control of funguses have been successful with the timing of fertilizer. The control of weeds has not been effective. The control of Japanese Beetle Grubs has been somewhat successful with the use of chemicals. The control of Wasps and Hornets has been somewhat successful by keeping barrels clean and emptied on a regular basis. We tried lids on field barrels but they disappear. Nests hanging from trees and buildings are disposed of by Waltham Services, Inc.. Reports will be generated by the Asst. Facility Mgr. and sent to the IPM coordinator.

#### **Soil Maintenance:**

None

#### **Fertilizer Use Practices:**

Slow-release for soil.

#### **Plant Care:**

Mulch

#### **Watering:**

In ground-no chemigation

#### **Tree and Shrub Diseases**

Blight

#### **Describe the monitoring technique you used for the pests above.**

Visual

#### **Provide information on how you diagnosed the pests above.**

Visual

#### **Provide details on the non-chemical control measures have you taken to manage the pests above.**

Physical removal

#### **If you use fungicides, describe your rationale for using them in for the pests**

above.

None

**Describe or identify any alternative management or biological strategies being used or planned to be used**

None

**Insects and Related Pests**

Gypsy Moth

**Describe the monitoring technique you used for the pests above.**

Visual

**Provide information on how you identified the species of the pests above.**

Color, size, prior dealings with pest.

**Provide details on the non-chemical control measures you have taken to manage the pests above.**

Physical removal of nests.

**If you use insecticides, describe your rationale for using them for the pests above.**

None

**Describe or identify any alternative management or biological strategies being used or planned to be used**

None

Pesticide		EPA		
Product Name	Active Ingredient	Registration Number	Target Pest	Rationale for use
Advion Ant Gel	Indoxacarb	100-1498	ants	nuisance control
Contrac with Lumitrack	Bromodiolone	12455-133	rodents	public health
Delta Dust	Deltamethrin	432-772	varied	public health
First Strike Soft Bait Rodenticide	Difethialone	7173-258	rodents	public health
PT Wasp Freeze	Phenothrin/allethrin	499-362	stinging insects	public health
Recruit HD	noviflumuron	62719-608	termites	used if and when needed
Recruit IV Termite bait	noviflumuron	62719-453	termites	used if and when needed
Suspend SC	Deltamethrin	432-763	varied insects	public health
Talstar P	Bifenthrin	279-3206	varied Insects	public health

Tempo 1% Dust	Cyfluthrin	432-1373	stinging insect	public health
Essentria IC3	Plant Oils	25B	varied Insects	public health
Essentria D	Plant Oils	25B	varied insects	public health
EcoExempt Jet	Plant Oils	25B	stinging insects	public health
Eco Via EC	Plant Oils	25B	varied insects	public health
Altosid Pellets WSP	(S)-Methoprene	2724-448	Mosquitoes	Safety
Aquabac G	Bacillus thuringiensis	62637-3	Mosquitoes	Safety
Aquabac XT	Bacillus thuringiensis	62637-1	Mosquitoes	Safety
Vectorex WSP	Bacillus Spaericus	275-77	Mosquitoes	Safety
Contra Bulk Pellets	Bromadiolone	12455-36	Rodents	Health and Safety

- Insecticides are only applied by a certified and/or licensed applicator.
- Insecticide Use is documented in the **STANDARD WRITTEN NOTIFICATION FORM**.

**Weeds**

Crabgrass

**Describe the monitoring technique you used for the pests above.**

Visual

**Provide information on how you identified the species of the pests above.**

Past practice

**Provide details on the non-chemical control measures have you taken to manage the pests above.**

Physically remove

**If you use herbicides, describe your rationale for using them for the pests above.**

None

**Describe or identify any alternative management or biological strategies being used or planned to be used**

None

**Pesticide**

Product Name	Active Ingredient	EPA Registration Number	Target Pest	Rationale for use
Round-Up		#524-745	weeds	only if necessary



- Herbicides are only applied by a certified and/or licensed applicator.
- Herbicide Use is documented in the **STANDARD WRITTEN NOTIFICATION FORM**.

## OUTDOOR MANAGEMENT PLAN

The following areas are priority areas for maintenance: Athletic fields

### Cultural Practices

## **OUTDOOR GROUNDS GENERAL MANAGEMENT PRACTICES**

### **Waste Disposal (trash containers and dumpsters):**

Barrels emptied weekly Steam cleaned as needed

### **Light Management:**

Energy Management timers

### **Excess Water Prevention:**

Drains are cleaned annually

### **Noxious Weed Management:**

Physical removal

### **Playgrounds (if applicable):**

Monitored and removed as necessary

### **Nuisance weeds in pavement:**

Physical removal (Round-Up if necessary)

### **Storage Sheds (If applicable):**

None

### **Insects observed in and around outdoor grounds of school property.**

Ants

Mosquitoes & Flies

Stinging Insects

### **Pests**

Ants

Mosquitoes & Flies

Stinging Insects

### **Insects in playground area (if applicable)**

Yellow Jackets

### **Describe the monitoring technique you used for the pests above.**

Monitored monthly Mosquitoes: Personnel from Cape Cod Mosquito Control Project will monitor stagnant water, including catch basins, on a regular basis between April and October. When larval levels reach the action threshold, a category four larvicide will be used for treatment. No applications would be made while children were

present on school property.

**Provide information on how you identified the species of the pests above.**

Waltham Services

**Provide details on the non-chemical control measures you have taken to manage the pests above.**

Keep areas clean from garbage and debris.

**If you use insecticides, describe your rationale for using them for the pests above.**

For control, only if pests present.

Pesticide Product Name	Active Ingredient	EPA Registration Number	Target Pest	Rationale for use
Advion Ant Gel	Indoxacarb	100-1498	ants	nuisance control
Contrac with Lumitrac	Bromodiolone	12455-133	rodents	public health
Delta Dust	Deltamethrin	432-772	varied	public health
First Strike Soft Bait Rodenticide	Difethialone	7173-258	rodents	public health
Recruit HD	noviflumuron	62719-608	termites	used to control termites
Recruit IV Termite bait	noviflumuron	62719-453	termites	used to control termites
PT Wasp Freeze	Phenothrin/Allethrin	499-362	stinging insects	public health
Suspend SC	Deltamethrin	432-763	varied insects	public health
Talstar P	Bifenthrin	279-3206	varied insects	public health
Tempo 1% Dust	Cyfluthrin	432-1373	stinging insect	public health
Essentria IC3	Plant Oils	25B	varied insects	public health
Essentria D	Plant Oils	25B	varied insects	public health
EcoExempt Jet	Plant Oils	25B	stinging insects	public health
Eco Via EC	Plant Oils	25B	varied insects	public health
Altosid Pellets WSP	(S)-Methoprene	2724-448	Mosquitoes	Safety

Aquabac G	Bacillus thuringiensis	62637-3	Mosquitoes	Safety
Aquabac XT	Bacillus thuringiensis	62637-1	Mosquitoes	Safety
Vectolex WSP	Bacillus Spaericus	275-77	Mosquitoes	Safety
Contrac Bulk Pellets	Bromadiolone	12455-36	Rodents	Health and Safety

- Insecticides are only applied by a certified and/or licensed applicator.
- Insecticides are used only when monitoring has shown that insects are present.
- Selective insecticides are used where possible instead of broad spectrum Insecticides.
- Insecticide chemical classes are rotated.
- Insecticides that are applied preventatively are used only in areas where insects occurred and were documented the previous year and can be expected to occur in current season.
- Insecticide Use is documented in the **STANDARD WRITTEN NOTIFICATION FORM**.

**Weeds**

**Noxious weeds noticed on the school grounds**

**Describe the monitoring technique you used for the pests above.**

**Provide information on how you identified the species of the pests above.**

**Provide details on the non-chemical control measures have you taken to manage the pests above.**

**If you use herbicides, describe your rationale for using them for the pests above.**

**H. RECORD KEEPING**

In the case of Dennis-Yarmouth Regional High School, OUTDOOR monitoring records will be maintained through: The use of forms which will be filled out by the person monitoring the facility

**I. EVALUATING THE PROGRAM**

The IPM plan will be evaluated on a Quarterly basis.

**J. NOTIFICATION REQUIREMENTS & EXEMPTIONS**

During the creation of this IPM plan, Sandra J. Cashen has assigned committee member Steven Faucher with the responsibility of assembling and issuing all the documents that accompany the standard written notification whenever pesticides are applied outdoors.

**K. IN THE EVENT OF A HEALTH EMERGENCY**

During the creation of this IPM plan, Sandra J. Cashen has assigned committee member Steven Faucher with the responsibility of applying for an emergency waiver.

**L. LIST OF PESTICIDES TO BE USED OUTSIDE THE FACILITY**

The following list includes all the pesticides that will be used outside Dennis-Yarmouth Regional High School. This list includes all herbicides, fungicides, and insecticides that will be used in the event that chemical is required.

Pesticide Product Name	Active Ingredient	EPA Registration Number	Target Pest	Rationale for use
<b>Contrac with Lumitrack</b>	Bromodiolone	12455-133	rodents	public health
<b>Recruit HD</b>	noviflumuron	62719-608	termites	used if and when needed
<b>Suspend SC</b>	Deltamethrin	432-763	varied Insects	public health
<b>Tempo 1% Dust</b>	Cyfluthrin	432-1373	stinging insect	public health
<b>EcoExempt Jet</b>	Plant Oils	25B	stinging insects	public health
<b>Altosid Pellets WSP</b>	(S)-Methoprene	2724-448	Mosquitoes	Safety
<b>Aquabac XT</b>	Bacillus thuringiensis	62637-1	Mosquitoes	Safety
<b>Recruit IV Termite bait</b>	noviflumuron	62719-453	termites	used to control termites
<b>Suspend SC</b>	Deltamethrin	432-763	varied insects	public health

<b>Advion Ant Gel</b>	Indoxacarb	100-1498	ants	nuisance control
<b>Altosid Pellets WSP</b>	(S)-Methoprene	2724-448	Mosquitoes	Safety
<b>Vectolex WSP</b>	Bacillus Spaericus	275-77	Mosquitoes	Safety
<b>Recruit IV</b>	noviflumuron	62719-453	termites	used if and when needed
<b>Termite bait</b>				
<b>Talstar P</b>	Bifenthrin	279-3206	varied insects	public health
<b>Tempo 1% Dust</b>	Cyfluthrin	432-1373	stinging insect	public health
<b>Essentria IC3</b>	Plant Oils	25B	varied insects	public health
<b>Essentria D</b>	Plant Oils	25B	varied insects	public health
<b>EcoExempt Jet</b>	Plant Oils	25B	stinging insects	public health
<b>Eco Via EC</b>	Plant Oils	25B	varied insects	public health
<b>PT Wasp Freeze</b>	Phenothrin/Allethrin	499-362	stinging insects	public health
<b>Talstar P</b>	Bifenthrin	279-3206	varied insects	public health
<b>Essentria IC3</b>	Plant Oils	25B	varied insects	public health
<b>Essentria D</b>	Plant Oils	25B	varied insects	public health
<b>Eco Via EC</b>	Plant Oils	25B	varied insects	public health
<b>Delta Dust</b>	Deltamethrin	432-772	varied	public health
<b>First Strike Soft Bait Rodenticide</b>	Difethialone	7173-258	rodents	public health
<b>PT Wasp Freeze</b>	Phenothrin/allethrin	499-362	stinging insects	public health
<b>Aquabac G</b>	Bacillus thuringiensis	62637-3	Mosquitoes	Safety
<b>Aquabac G</b>	Bacillus thuringiensis	62637-3	Mosquitoes	Safety
<b>Aquabac XT</b>	Bacillus thuringiensis	62637-1	Mosquitoes	Safety
<b>Vectolex WSP</b>	Bacillus Spaericus	275-77	Mosquitoes	Safety
<b>Contrac Bulk Pellets</b>	Bromadiolone	12455-36	Rodents	Health and Safety
<b>Round-Up</b>		#524-745	weeds	only if necessary

<b>Advion Ant Gel</b>	Indoxacarb	100-1498	ants	nuisance control
<b>Contrac with Lumitrack</b>	Bromodiolone	12455-133	rodents	public health
<b>Delta Dust</b>	Deltamethrin	432-772	varied	public health
<b>First Strike Soft Bait Rodenticide</b>	Difethialone	7173-258	rodents	public health
<b>Recruit HD</b>	noviflumuron	62719-608	termites	used to control termites
<b>Contrac Bulk Pellets</b>	Bromadiolone	12455-36	Rodents	Health and Safety

**M. WELL WATER SYSTEM**

The school does not have its own on site well water system.

I attest, to the best of my knowledge, that the above information is complete, accurate and true

  
IPM-Coordinator Signature

10.15.18  
Date

  
Administrator, Director, or Principal

10.15.18  
Date

Outdoor IPM Plan originally submitted on: 2/1/2008 3:31:00 PM  
Plan updated by Sandra J. Cashen on: 10/12/2018 10:33:00 AM