From the data collected, there are strong indications that there is a great need for pest management information:

- Within the last three years, 70% of respondents have experienced pest complaints by staff, children, parents, or other building occupants. The top indoor pests include ants, flies, head lice, spiders, and rodents. Outdoor pests mentioned by over 50% of respondents include stinging insects, spiders, ants, weeds, wildlife, mosquitoes, flies, and birds. These pests will be addressed in future outreach efforts.

- During site visits and presentations, we found a general unfamiliarity of pest evidence and risk, in particular of mice. Given the health risks associated with mice and flies, two top pests in these facilities, increased awareness of health risks, recognition of activity, and prevention will be addressed in outreach efforts.

  25% of respondents reported using pesticide applications for weeds and 66% for outdoor insect pests. In NY, under the Child Safe Playing Fields Act, it is unlawful to apply pesticides outdoors unless an emergency exemption from the state health department is granted. When asked if they had requested an emergency exemption for the Child Safe Playing Fields Act, 3% checked yes and 72% checked “I don’t know what this is”.

The survey also provided information on pitfalls in providing information to child care staff. State laws prohibit the use of computers during business hours, so educational websites (39%), email newsletters (39%), videos (22%), blogs (3%), and social media (3%) rated lower than hard copy materials such as fact sheets (54%) and brochures (46%). Educational materials targeted specifically to staff and parents were rated as most desirable (60% and 52% respectively). We will work with OCFS and regional Child Care Councils to determine how best to provide hard copies to child care centers in a cost effective manner.

The goal of reaching out to child care businesses, in itself, was challenging. As privately-owned businesses with exceptional training and regulatory requirements for owners and staff, the state restrictions on pesticide use were not high priority issues, even when pests were of concern. Outreach to the child care industry must be coordinated and integrated with already-existing educational conduits, such as the county and regional Child Care Councils.

Targeting written materials to child care providers will necessitate rebranding other IPM materials specifically for child care audiences and focusing on the pest and landscape management topics that survey respondents indicate are concerns (including ants, yellowjackets, mice, poison ivy and lawn care).

We anticipated much higher participation in the survey, based on the idea that child care providers would be concerned about pests and pesticide exposure of children in their care. We did not anticipate that during the time of this survey, NYS child care providers were also being surveyed by the state on other issues. There also was a surprising lack of awareness of the importance of safer pest management in child care centers. Most centers responding implied that pests were not problematic.

Despite challenges in getting survey responses, this project raised awareness of some child care providers and many Child Care Councils about the importance of good pest management advice, and that the NYS IPM Program is a reliable and unbiased source of information. A meeting was held with Staff from the NYS Office of Child and Family Services (OCFS), Department of Health and Department of Environmental Conservation on November 17, 2014 to discuss pest management and pesticide use reduction in child care facilities.
Educational fact sheets for head lice, ticks and the Child Safe Playing Fields Law will improve the understanding of safe pest management for these instances. The four presentations given to child care audiences have broadened awareness for nearly 100 people involved in child care. Survey results will continue to inform and guide the NYS IPM Program’s development of educational materials and connections with OCFS will help in distribution.

Overall, the outcome of this project is that child care providers and the organizations and state lead agencies that support them are aware that the NYS IPM Program can provide scientifically sound pest management advice and will conduct site assessments as needed in the future. The anticipated impact is that children in New York will experience safer and healthier environments while attending child care centers.

An electronic survey was developed using a California Department of Pesticide Regulation child care survey as a model (Bradman et al. 2003) and implemented in this project to assess the status of pest management in child care centers (not including home-based child care). The survey instrument was developed on Google Drive (see the live form here: https://docs.google.com/forms/d/1V8kBZxDIQv5fZmKlI4w46EoZBh0Zv9WiArOlKLxG/viewform) and executed from July 2014 through July 2015.

Survey participants were solicited, not through the state lead agency (NYS Office of Child and Family Services) but through regional non-profit organizations that provide education to child care providers, usually county-based Child Care Councils.

Selected results are as follows (and all results will be reported in the New York State IPM Program’s Project Reports at www.nysipm.cornell.edu)

**Child Care Centers and Pest Management Survey**

**Preliminary Results November 9, 2015**

67 Responses

**Pest and Pest Management Complaints**

- Had pest complaints within the last three years: 70%
- Had pesticide complaints within the last three years: 10%
- Not satisfied with the level of pest management at the center: 16%

**Pest management techniques or products used for OUTDOOR pests?**

- Pesticide application(s) for weeds
  - Yes: 25%
  - Never: 48%
  - Don’t know: 27%

- Pesticide application(s) for insects
  - Yes: 66%
  - Never: 15%
  - Don’t know: 20%

**Have you requested an emergency exemption under the Child Safe Playing Fields Act?**

- Yes: 3%
- Never: 25%
- I don’t know what this is: 72%

**Most Common Child Care Pests**

**Outdoor Pests**

- Stinging Insects: 82%
- Spiders: 73%
- Ants: 72%
- Weeds: 72%
- Wildlife: 65%
- Mosquitoes: 60%
- Flies: 57%
- Birds: 52%

**Indoor Pests**

- Ants: 82%
Diverse Audiences

Child care in New York State is a diverse industry, as all types of families need some form of child care. Although outreach opportunities were limited to four settings, materials delivered as a result of this project and to be delivered in the future serve diverse audiences throughout the state and beyond.

Multi-State Activities:

Publication(s):

Based on the findings that the majority of child care providers are unaware of the requirements of the Child Safe Playing Fields Act, we hosted a meeting with the NYS DEC (the state agency that regulates pesticides), the NYS Health Department, and OCFS to address this issue. The DEC and OCFS are working to increase awareness of and compliance with NYS laws within the industry. The NYS IPM Program also developed a fact sheet entitled Child Safe Playing Fields Act – Frequently Asked Questions (http://www.nysipm.cornell.edu/factsheets/buildings/child_safe_FAQ.pdf) to help educate child care center staff.

Head lice were identified as an issue by 66% of respondents leading to the development of a Head Lice—Frequently Asked Questions (http://www.nysipm.cornell.edu/factsheets/buildings/head_lice_FAQ.pdf) fact sheet.

While only 30% reported having ticks on the property, the NYS Department of Health requested the NYS IPM Program to verify the presence of ticks at child care facilities that requested emergency exemptions for pesticide applications. Site visits also found that pesticides were applied illegally or an alternative pesticide not found to be effective against ticks were being applied. A fact sheet, Understanding and Managing Ticks – A Guide for Schools, Child Care and Camps (http://www.nysipm.cornell.edu/factsheets/buildings/tick_mgmt.pdf), was developed to help stakeholders with decision-making.

To help promote the distribution of educational materials and address timely topics, The ABCs of School and Childcare Pest Management blog (http://blogs.cornell.edu/schoolchildcareipm/) was developed. Posts to the blog include topics such as ground-nesting bees, upcoming IPM seminars, school and child care pesticide laws, goose management, ticks and healthy schools.

Communication(s):

To help promote the distribution of educational materials and address timely topics, The ABCs of School and Childcare Pest Management blog (http://blogs.cornell.edu/schoolchildcareipm/) was developed. Posts to the blog include topics such as ground-nesting bees, upcoming IPM seminars, school and child care pesticide laws, goose management, ticks and healthy schools. Other deliverables listed above can be found at the NYS IPM website: www.nysipm.cornell.edu.

Presentation(s):

Site assessments visits were conducted at five child care centers. Site assessments consisted of a thorough outdoor perimeter inspection, noting pest entry points and conditions that are conducive to pest infestation (such as water leaks or weeds along the foundation). Indoor assessments focused on entry points, water, food availability and pest evidence in the basement areas, food storage and preparation areas, closets, classrooms windows, doors and bathrooms. All assessments were written into reports for the facility management with recommendations for improvements.

Sites included:

- Bethlehem Children’s School, Glenmont, NY (ongoing visitation July-August 2014)
- Children’s Academy of Malta, Malta, NY 3/9/15

Desired educational deliverables

- Educational materials for staff 60%
- Educational materials for parents 52%
- Fact sheets 54%
- Brochures 46%
- Workshops or Seminars 42%
- Email newsletter 39%
- Web site 39%
- Webinars 34%
- Lesson plans for children 31%
- Consultation with a NYSIPM expert 28%
- Educational materials for landlord 24%
- Videos 22%
- Not interested in IPM education 6%
- JCC Child Care Center, Albany, NY 7/15/14
- Peace Through Play, Chestnut Ridge, NY 7/28/15
- Samaritan Child Care Center, Inc., Troy, NY 9/21/15
- St. Regis Mohawk Tribal Child Care, Akwesane, NY 7/15/15

The following IPM presentations were given:
- Child Care Centers and IPM - Capital District Child Care Council Directors’ Meeting, Albany, NY – 4/8/14
- IPM for Schools and Child Care Centers - Central Atlantic States Association of Food and Drug Officials, Colonie, NY – 12/12/14
- IPM in the Child Care Setting Training - Children’s Academy of Malta, Malta, NY – 3/7/15

**Project Conclusion:**

Children need to be protected from environmental health hazards, such as pests and pesticides, especially during the earliest years of life. It is well documented that the presence of some common pests and exposure to pesticides are both potentially hazardous to children's health. A goal of the NYS IPM Program is to help ensure that children’s indoor environments are healthy, pest-free and free of risks due to pest management activities.

This project helped elucidate the reality that many child care providers in New York have little awareness of the importance of safe, effective pest management and how to achieve it. Many survey respondents reported seeing pests or having pest concerns and yet most have never learned of laws that govern pesticide use in child care businesses and many are using pesticides when they should not be doing so. Over the course of five site assessments it became clear that many child care employees did not recognize the signs of pest infestation.

Reaching the workers of the child care industry, that for safety reasons is largely offline during the workday, presents a challenge for extension. However this project has shown a clear pathway for outreach that is interactive (through seminars and site assessment), facilitated by already-existing educational opportunities and reinforced using take-away reading and reference materials. The NYS IPM Program will continue to develop materials targeting high-priority topics identified in the IPM survey, maintain connections with Child Care Councils statewide and the Office of Child and Family Services, and will respond on an as-needed basis to pest management emergencies and questions in child care settings. With this follow through and by expanding our School IPM efforts to include child care, we aim to reduce the potential for harm to children from pests and the use of pest management practices that may be hazardous.

**Other External Funding to Continue:**

No,
67 responses

View all responses  Publish analytics

Summary

About You and Your Center

1. I am the (please check all that apply)

- Owner 14 (20.9%)
- Director 47 (70.1%)
- Associate or Assistant Director 7 (10.4%)
- On-site Supervisor 2 (3%)
- Teacher, Teacher Associate, or Caregiver 1 (1.5%)
- Cook or Kitchen helper 0 (0%)
- Custodian 0 (0%)
- Other 3 (4.5%)

2. Do you rent or own your child care space?

- Rent 23 (34.3%)
- Own 34 (50.7%)
- Other 12 (17.9%)

3. How would you describe your child care space?

- Standalone building 35
- Attached building 32
### Standalone building

- 36 (53.7%)

### Attached building (shared walls such as in a strip mall)

- 6 (9%)

### In a building shared with other occupants (such as an office building, church, or school)

- 25 (37.3%)

### Other

- 2 (3%)

#### By you [4. Have you had any indoor or outdoor plant, insect, or other animal pest complaints at your center within the past three years?]

- Yes 42 (62.7%)
- No 23 (34.3%)
- Unsure 1 (1.5%)
- Not Applicable 1 (1.5%)

#### By staff [4. Have you had any indoor or outdoor plant, insect, or other animal pest complaints at your center within the past three years?]

- Yes 47 (70.1%)
- No 18 (26.9%)
- Unsure 1 (1.5%)
- Not Applicable 1 (1.5%)

#### By children [4. Have you had any indoor or outdoor plant, insect, or other animal pest complaints at your center within the past three years?]

- Yes 16 (23.9%)
- No 46 (68.7%)
- Unsure 3 (4.5%)
- Not Applicable 2 (3%)

#### By parents [4. Have you had any indoor or outdoor plant, insect, or other animal pest complaints at your center within the past three years?]

- Yes 10 (14.9%)
- No 49 (73.1%)
- Unsure 4 (6%)
- Not Applicable 4 (6%)
By other building occupants [4. Have you had any indoor or outdoor plant, insect, or other animal pest complaints at your center within the past three years?]

- Yes: 15 (24.2%)
- No: 30 (48.4%)
- Unsure: 3 (4.8%)
- Not Applicable: 14 (22.6%)

By you [5. Have there been complaints concerning pesticide use at your center within the past three years?]

- Yes: 7 (10.4%)
- No: 58 (86.6%)
- Unsure: 0 (0%)
- Not applicable: 2 (3%)

By staff [5. Have there been complaints concerning pesticide use at your center within the past three years?]

- Yes: 5 (7.5%)
- No: 60 (89.6%)
- Unsure: 0 (0%)
- Not applicable: 2 (3%)

By children [5. Have there been complaints concerning pesticide use at your center within the past three years?]

- Yes: 3 (4.5%)
- No: 59 (88.1%)
- Unsure: 1 (1.5%)
- Not applicable: 4 (6%)

By parents [5. Have there been complaints concerning pesticide use at your center within the past three years?]

- Yes: 3 (4.8%)
- No: 55 (88.7%)
By other building occupants [5. Have there been complaints concerning pesticide use at your center within the past three years?]

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<thead>
<tr>
<th>Response</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
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<td>4.9%</td>
</tr>
<tr>
<td>No</td>
<td>43</td>
<td>70.5%</td>
</tr>
<tr>
<td>Unsure</td>
<td>2</td>
<td>3.2%</td>
</tr>
<tr>
<td>Not applicable</td>
<td>2</td>
<td>3.2%</td>
</tr>
</tbody>
</table>

Common Pests

Ants [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

<table>
<thead>
<tr>
<th>Pests</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Seen</td>
<td>12</td>
<td>17.9%</td>
</tr>
<tr>
<td>Seen Once</td>
<td>10</td>
<td>14.9%</td>
</tr>
<tr>
<td>Seen Every Year</td>
<td>26</td>
<td>38.8%</td>
</tr>
<tr>
<td>Seen Multiple Times a Year</td>
<td>17</td>
<td>25.4%</td>
</tr>
<tr>
<td>We can't get rid of it!</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>0</td>
<td>0%</td>
</tr>
</tbody>
</table>

Bats [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]
Bed bugs [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 58 (86.6%)
- Seen Once: 5 (7.5%)
- Seen Every Year: 3 (4.5%)
- Seen Multiple Times a Year: 1 (1.5%)
- We can't get rid of it: 0 (0%)
- Don't Know: 0 (0%)

Cockroaches [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 55 (82.1%)
- Seen Once: 8 (11.9%)
- Seen Every Year: 2 (3%)
- Seen Multiple Times a Year: 1 (1.5%)
Fleas [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 57 (85.1%)
- Seen Once: 6 (9%)
- Seen Every Year: 3 (4.5%)
- Seen Multiple Times a Year: 1 (1.5%)
- We can't get rid of it: 0 (0%)
- Don't Know: 0 (0%)

Flies (house flies, fruit flies, etc.) [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 21 (31.3%)
- Seen Once: 13 (19.4%)
- Seen Every Year: 15 (22.4%)
- Seen Multiple Times a Year: 12 (17.9%)
- We can't get rid of it: 4 (6%)
- Don't Know: 2 (3%)

Head lice [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 0
- Seen Once: 0
- Seen Every Year: 0
- Seen Multiple Times a Year: 0
- We can't get rid of it: 0
- Don't Know: 0
Rodents (mice, rats) [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 31 (46.3%)
- Seen Once: 11 (16.4%)
- Seen Every Year: 20 (29.9%)
- Seen Multiple Times a Year: 4 (6%)
- We can't get rid of it!: 1 (1.5%)
- Don't Know: 0 (0%)

Spiders [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 23 (34.3%)
- Seen Once: 21 (31.3%)
- Seen Every Year: 16 (23.9%)
- Seen Multiple Times a Year: 7 (10.4%)
- We can't get rid of it!: 0 (0%)
- Don't Know: 0 (0%)

Child Care Centers and Pest Management - Google Forms
https://docs.google.com/forms/d/1V8kBZDIQv5fZmKI4w46EoZBhf...
Stored food pests (beetles, moths) [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 61 (91%)
- Seen Once: 4 (6%)
- Seen Every Year: 0 (0%)
- Seen Multiple Times a Year: 1 (1.5%)
- We can't get rid of it: 0 (0%)
- Don't Know: 1 (1.5%)

Termites [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 59 (95.2%)
- Seen Once: 2 (3.2%)
- Seen Every Year: 1 (1.6%)
- Seen Multiple Times a Year: 0 (0%)
- We can't get rid of it: 0 (0%)
Other [6. What INDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 44 (72.1%)
- Seen Once: 3 (4.9%)
- Seen Every Year: 1 (1.6%)
- Seen Multiple Times a Year: 1 (1.6%)
- We can't get rid of it!: 0 (0%)
- Don't Know: 12 (19.7%)

If applicable, please list Other INDOOR pests here:
- moles
- bees
- cetipedes
- chipmunk
- centipedes, house centipedes
- mice
- Ants with wings- not seen this year though.

Ants [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 18 (26.9%)
- Seen Once: 5 (7.5%)
- Seen Every Year: 1 (1.6%)
- Seen Multiple Times a Year: 1 (1.6%)
- We can't get rid of it!: 0 (0%)
- Don't Know: 0 (0%)
Bees, hornets, wasps [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen 12 (17.9%)
- Seen Once 4 (6%)
- Seen Every Year 30 (44.8%)
- Seen Multiple Times a Year 14 (20.9%)
- We can't get rid of it! 7 (10.4%)
- Don't Know 0 (0%)

Birds (house sparrows, pigeons, etc.) [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen 29 (43.3%)
- Seen Once 3 (4.5%)
- Seen Every Year 21 (31.3%)
- Seen Multiple Times a Year 10 (14.9%)
- We can't get rid of it! 1 (1.5%)
- Don't Know 3 (4.5%)

Fleas [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen 12 (17.9%)
- Seen Once 4 (6%)
- Seen Every Year 21 (31.3%)
- Seen Multiple Times a Year 10 (14.9%)
- We can't get rid of it! 7 (10.4%)
- Don't Know 0 (0%)
Flies (house flies, gnats, etc.) [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 28 (41.8%)
- Seen Once: 3 (4.5%)
- Seen Every Year: 23 (34.3%)
- Seen Multiple Times a Year: 10 (14.9%)
- We can't get rid of it! 2 (3%)
- Don't Know: 1 (1.5%)

Geese [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 56 (83.6%)
- Seen Once: 3 (4.5%)
- Seen Every Year: 4 (6%)
- Seen Multiple Times a Year: 2 (3%)
- We can't get rid of it! 0 (0%)
- Don't Know: 2 (3%)
Lawn grubs [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 53 (79.1%)
- Seen Once: 4 (6%)
- Seen Every Year: 7 (10.4%)
- Seen Multiple Times a Year: 1 (1.5%)
- We can't get rid of it!: 1 (1.5%)
- Don't Know: 1 (1.5%)

Mosquitoes [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 50 (74.6%)
- Seen Once: 2 (3%)
- Seen Every Year: 6 (9%)
- Seen Multiple Times a Year: 2 (3%)
- We can't get rid of it!: 0 (0%)
- Don't Know: 7 (10.4%)

Not Seen: 27 (40.3%)
Seen Once: 6 (9%)
Poison ivy [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- **Not Seen**: 51 (76.1%)
- **Seen Once**: 6 (9%)
- **Seen Every Year**: 6 (9%)
- **Seen Multiple Times a Year**: 2 (3%)
- **We can't get rid of it**: 0 (0%)
- **Don't Know**: 2 (3%)

Rodents (mice, rats) [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- **Not Seen**: 40 (59.7%)
- **Seen Once**: 10 (14.9%)
- **Seen Every Year**: 9 (13.4%)
- **Seen Multiple Times a Year**: 7 (10.4%)
- **We can't get rid of it**: 1 (1.5%)
- **Don't Know**: 0 (0%)

Spiders [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- **Not Seen**: 25 (37.3%)
- **Seen Once**: 6 (9%)
- **Seen Every Year**: 6 (9%)
- **Seen Multiple Times a Year**: 7 (10.4%)
- **We can't get rid of it**: 2 (3%)
- **Don't Know**: 0 (0%)
Ticks [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 44 (65.7%)
- Seen Once: 6 (9%)
- Seen Every Year: 10 (14.9%)
- Seen Multiple Times a Year: 4 (6%)
- We can't get rid of it: 0 (0%)
- Don't Know: 3 (4.5%)

Weeds (clover, dandelions, plantain, etc.) [7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.]

- Not Seen: 18 (26.9%)
- Seen Once: 10 (14.9%)
- Seen Every Year: 27 (40.3%)
- Seen Multiple Times a Year: 12 (17.9%)
- We can't get rid of it: 0 (0%)
- Don't Know: 0 (0%)
### Wildlife (bats, moles, raccoons, squirrels, skunks, snakes, etc.)

7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Seen</td>
<td>19</td>
<td>28.4%</td>
</tr>
<tr>
<td>Seen Once</td>
<td>3</td>
<td>4.5%</td>
</tr>
<tr>
<td>Seen Every Year</td>
<td>24</td>
<td>35.8%</td>
</tr>
<tr>
<td>Seen Multiple Times a Year</td>
<td>14</td>
<td>20.9%</td>
</tr>
<tr>
<td>We can't get rid of it</td>
<td>7</td>
<td>10.4%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>0</td>
<td>0%</td>
</tr>
</tbody>
</table>

### Other

7. What OUTDOOR pests have you seen or have been reported in and outside the child care center, and how often, in the past three years? Check all that apply.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Seen</td>
<td>21</td>
<td>33.9%</td>
</tr>
<tr>
<td>Seen Once</td>
<td>7</td>
<td>11.3%</td>
</tr>
<tr>
<td>Seen Every Year</td>
<td>22</td>
<td>35.5%</td>
</tr>
<tr>
<td>Seen Multiple Times a Year</td>
<td>9</td>
<td>14.5%</td>
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<tr>
<td>We can't get rid of it</td>
<td>2</td>
<td>3.2%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>1</td>
<td>1.6%</td>
</tr>
</tbody>
</table>
Seen Every Year 2 3.3%
Seen Multiple Times a Year 1 1.6%
We can't get rid of it! 1 1.6%
Don't Know 17 27.9%

If applicable, please list Other OUTDOOR pests here:
Groundhogs
mushrooms
groundhogs
deer
groundhog
sand bees
raccoons
turkeys

Pest Management Responsibility

8. Who makes pest management decisions? Please check all that apply.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Landlord or employee of landlord</td>
<td>12 19.7%</td>
</tr>
<tr>
<td>Owner</td>
<td>24 39.3%</td>
</tr>
<tr>
<td>Director</td>
<td>36 59%</td>
</tr>
<tr>
<td>Child care staff</td>
<td>2 3.3%</td>
</tr>
<tr>
<td>Pest control company</td>
<td>14 23%</td>
</tr>
<tr>
<td>Landscape company</td>
<td>1 1.6%</td>
</tr>
<tr>
<td>Nobody (no pest management happens)</td>
<td>0 0%</td>
</tr>
<tr>
<td>Don't know</td>
<td>0 0%</td>
</tr>
<tr>
<td>Other</td>
<td>14 23%</td>
</tr>
</tbody>
</table>

9. Who performs pest management INSIDE the building? Please check all that apply.
### 10. Who performs pest management OUTSIDE the building (lawn and landscape)? Please check all that apply.

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landlord or employee of landlord</td>
<td>11</td>
<td>16.4%</td>
</tr>
<tr>
<td>Owner</td>
<td>15</td>
<td>22.4%</td>
</tr>
<tr>
<td>Director</td>
<td>12</td>
<td>17.9%</td>
</tr>
<tr>
<td>Child care staff</td>
<td>8</td>
<td>11.9%</td>
</tr>
<tr>
<td>Pest control company</td>
<td>24</td>
<td>35.8%</td>
</tr>
<tr>
<td>Landscape company</td>
<td>5</td>
<td>7.5%</td>
</tr>
<tr>
<td>Nobody (no management happens)</td>
<td>3</td>
<td>4.5%</td>
</tr>
<tr>
<td>Don't know</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Other</td>
<td>13</td>
<td>19.4%</td>
</tr>
</tbody>
</table>

---

**Note:** The data provided is an excerpt from a survey conducted by Child Care Centers and Pest Management - Google Forms. The full survey can be accessed at [this link](https://docs.google.com/forms/d/1V8kBZDlQv5fZmKlIH4w46EoZBhfc...). The survey was completed on December 16, 2015, at 9:50 AM. The page number is 17 of 35.
11. Are you satisfied with the level of pest management at your center?

- Yes: 50 (82%)
- No: 10 (16.4%)
- Other: 1 (1.6%)

12. Where does the individual(s) responsible for pest management get their information? Please check all that apply.

- Cornell University (including Cornell Cooperative Extension and the NYS IPM Program): 10 (16.4%)
- State agencies, (Dept. of Environmental Conservation, Dept. of Education, Office of Child and Family Services): 24 (39.3%)
- US EPA: 6 (9.8%)
- Regional Child Care Council: 6 (9.8%)
- Home and Garden Center: 9 (14.8%)
- Trade groups and journals: 1 (1.6%)
- Pest control company: 30 (49.2%)
- Advocacy groups: 0 (0%)
- Pesticide applicator courses: 3 (4.9%)
- Other: 11 (18%)

Pest Management Practices

13. What pest management strategies are in place to deal with pests? Check all that apply
We have a written pest management policy. 12 18.5%

Pest inspections are conducted regularly (e.g., weekly, monthly) 28 43.1%

Staff are educated about pest issues, such as head lice or ticks. 40 61.5%

Parents are educated about pest issues, such as head lice or ticks. 35 53.8%

Parents are notified when a pesticide application will take place at the center. 29 44.6%

All pesticides, if used, are applied by a Certified Commercial Pesticide Applicator. 30 46.2%

Recordkeeping 20 30.8%

Other 10 15.4%

Sanitation and housekeeping [14. How often are the following pest management techniques or products used for INDOOR pests?]

Routinely Scheduled 60 89.6%
Quarterly or a Few Times a Year 1 1.5%
Only When Needed 2 3%
Never 3 4.5%
Don't Know 1 1.5%

Building modifications (door sweeps, sealing crevices, screens) [14. How often are the following pest management techniques or products used for INDOOR pests?]
### Mechanical rodent traps

- **Routinely Scheduled**: 27 (40.3%)
- **Quarterly or a Few Times a Year**: 6 (9%)
- **Only When Needed**: 20 (29.9%)
- **Never**: 9 (13.4%)
- **Don’t Know**: 5 (7.5%)

### Sticky traps

- **Routinely Scheduled**: 16 (23.9%)
- **Quarterly or a Few Times a Year**: 4 (6%)
- **Only When Needed**: 21 (31.3%)
- **Never**: 21 (31.3%)
- **Don’t Know**: 5 (7.5%)

### Vacuuming

- **Routinely Scheduled**: 10 (14.9%)
- **Quarterly or a Few Times a Year**: 2 (3%)
- **Only When Needed**: 15 (22.4%)
- **Never**: 34 (50.7%)
- **Don’t Know**: 6 (9%)
Sanitation [14. How often are the following pest management techniques or products used for INDOOR pests?]

- Routinely Scheduled: 59 (88.1%)
- Quarterly or a Few Times a Year: 0 (0%)
- Only When Needed: 2 (3%)
- Never: 5 (7.5%)
- Don't Know: 1 (1.5%)

Insecticidal dusts [14. How often are the following pest management techniques or products used for INDOOR pests?]

- Routinely Scheduled: 60 (89.6%)
- Quarterly or a Few Times a Year: 0 (0%)
- Only When Needed: 1 (1.5%)
- Never: 5 (7.5%)
- Don't Know: 1 (1.5%)
Bait station for insect pests [14. How often are the following pest management techniques or products used for INDOOR pests?]

- Routinely Scheduled: 11 (18%)
- Quarterly or a Few Times a Year: 2 (3.3%)
- Only When Needed: 20 (32.8%)
- Never: 20 (32.8%)
- Don't Know: 8 (13.1%)

Bait station for rodents [14. How often are the following pest management techniques or products used for INDOOR pests?]

- Routinely Scheduled: 10 (16.4%)
- Quarterly or a Few Times a Year: 3 (4.9%)
- Only When Needed: 16 (26.2%)
- Never: 24 (39.3%)
- Don't Know: 8 (13.1%)

Steam cleaning/heat [14. How often are the following pest management techniques or products used for INDOOR pests?]
**Routinely Scheduled**
- 18 (29.5%)

**Quarterly or a Few Times a Year**
- 14 (23%)

**Only When Needed**
- 6 (9.8%)

**Never**
- 15 (24.6%)

**Don’t Know**
- 8 (13.1%)

Total release insecticidal foggers [14. How often are the following pest management techniques or products used for INDOOR pests?]

- Routinely Scheduled: 3 (4.9%)
- Quarterly or a Few Times a Year: 1 (1.6%)
- Only When Needed: 2 (3.3%)
- Never: 44 (72.1%)
- Don’t Know: 11 (18%)

Baseboard spraying [14. How often are the following pest management techniques or products used for INDOOR pests?]

- Routinely Scheduled: 6 (9.8%)
- Quarterly or a Few Times a Year: 4 (6.6%)
- Only When Needed: 11 (18%)
- Never: 25 (41%)
- Don’t Know: 15 (24.6%)

Crack/crevice applications [14. How often are the following pest management techniques or products used for INDOOR pests?]
### How often are the following pest management techniques or products used for INDOOR pests?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routinely Scheduled</td>
<td>5</td>
<td>8.2%</td>
</tr>
<tr>
<td>Quarterly or a Few Times a Year</td>
<td>3</td>
<td>4.9%</td>
</tr>
<tr>
<td>Only When Needed</td>
<td>18</td>
<td>29.5%</td>
</tr>
<tr>
<td>Never</td>
<td>19</td>
<td>31.1%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>16</td>
<td>26.2%</td>
</tr>
</tbody>
</table>

### Other INDOOR pest management techniques or products
- borax
- diatomaceous earth
- bleach and water

### How often are the following pest management techniques or products used for OUTDOOR pests?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routinely Scheduled</td>
<td>10</td>
<td>16.4%</td>
</tr>
<tr>
<td>Quarterly or a Few Times a Year</td>
<td>2</td>
<td>3.3%</td>
</tr>
<tr>
<td>Only When Needed</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Never</td>
<td>15</td>
<td>24.6%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>34</td>
<td>55.7%</td>
</tr>
</tbody>
</table>

If applicable, please list Other INDOOR pest management techniques or products here:
- borax
- diatomaceous earth
- bleach and water

Regular inspections [15. How often are the following pest management techniques or products used for OUTDOOR pests?]
Raised mower height on lawn [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

- Routinely Scheduled: 38 (56.7%)
- Quarterly or a Few Times a Year: 11 (16.4%)
- Only When Needed: 5 (7.5%)
- Never: 6 (9%)
- Don't Know: 7 (10.4%)

Soil testing [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

- Routinely Scheduled: 23 (34.3%)
- Quarterly or a Few Times a Year: 0 (0%)
- Only When Needed: 10 (14.9%)
- Never: 15 (22.4%)
- Don't Know: 19 (28.4%)

Fertilization [15. How often are the following pest management techniques or products used for OUTDOOR pests?]
Routinely Scheduled 4 6%
Quarterly or a Few Times a Year 1 1.5%
Only When Needed 7 10.4%
Never 38 56.7%
Don't Know 17 25.4%

Watering [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

Routinely Scheduled 15 22.4%
Quarterly or a Few Times a Year 1 1.5%
Only When Needed 13 19.4%
Never 24 35.8%
Don't Know 14 20.9%

Aeration [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

Routinely Scheduled 6 9%
Quarterly or a Few Times a Year 1 1.5%
### Seeding grassy (and bare areas that are supposed to be grass) [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routinely Scheduled</td>
<td>8</td>
<td>11.9%</td>
</tr>
<tr>
<td>Quarterly or a Few Times a Year</td>
<td>6</td>
<td>9%</td>
</tr>
<tr>
<td>Only When Needed</td>
<td>18</td>
<td>26.9%</td>
</tr>
<tr>
<td>Never</td>
<td>22</td>
<td>32.8%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>13</td>
<td>19.4%</td>
</tr>
</tbody>
</table>

### Mulch [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routinely Scheduled</td>
<td>12</td>
<td>17.9%</td>
</tr>
<tr>
<td>Quarterly or a Few Times a Year</td>
<td>9</td>
<td>13.4%</td>
</tr>
<tr>
<td>Only When Needed</td>
<td>23</td>
<td>34.3%</td>
</tr>
<tr>
<td>Never</td>
<td>14</td>
<td>20.9%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>9</td>
<td>13.4%</td>
</tr>
</tbody>
</table>

### Pesticide application(s) for weeds (weed and feed, Round Up, etc.) [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routinely Scheduled</td>
<td>5</td>
<td>7.5%</td>
</tr>
<tr>
<td>Never</td>
<td>32</td>
<td>47.8%</td>
</tr>
<tr>
<td>Don't Know</td>
<td>23</td>
<td>34.3%</td>
</tr>
</tbody>
</table>
Pesticide application(s) for insects (wasp and hornet spray, grub control, etc.) [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

- Routinely Scheduled: 4 (6%)
- Quarterly or a Few Times a Year: 4 (6%)
- Only When Needed: 9 (13.4%)
- Never: 32 (47.8%)
- Don't Know: 18 (26.9%)

Other [15. How often are the following pest management techniques or products used for OUTDOOR pests?]

- Routinely Scheduled: 5 (8.2%)
- Quarterly or a Few Times a Year: 4 (6.6%)
- Only When Needed: 31 (50.8%)
- Never: 9 (14.8%)
- Don't Know: 12 (19.7%)

If applicable, please list Other OUTDOOR pest management techniques or products here:
Pesticide Application

Landlord or employee of landlord [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 57 (85.1%)
  - Applies Indoors: 2 (3%)
  - Applies Outdoors: 2 (3%)
  - Applies Indoors and Outdoors: 5 (7.5%)

Owner [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 57 (85.1%)
  - Applies Indoors: 3 (4.5%)
  - Applies Outdoors: 2 (3%)
  - Applies Indoors and Outdoors: 4 (6%)

Director [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 58 (86.6%)

Additional text:

- trap for raccoon
- natural sprays only- weeds are taken out by hand
Child care staff [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 60 (89.6%)
- Applies Indoors: 2 (3%)
- Applies Outdoors: 4 (6%)
- Applies Indoors and Outdoors: 0 (0%)

Pest control company [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 24 (38.7%)
- Applies Indoors: 12 (19.4%)
- Applies Outdoors: 8 (12.9%)
- Applies Indoors and Outdoors: 18 (29%)

Nobody (no pesticides applied) [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 60 (98.4%)
- Applies Indoors: 0 (0%)
- Applies Outdoors: 0 (0%)
- Applies Indoors and Outdoors: 1 (1.6%)
Don't know [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 57 (93.4%)
  - Applies Indoors: 0 (0%)
  - Applies Outdoors: 0 (0%)
  - Applies Indoors and Outdoors: 4 (6.6%)

Other [16. Who applies pesticides at the center? Check all that apply.]

- Does Not Apply Pesticides: 54 (88.5%)
  - Applies Indoors: 0 (0%)
  - Applies Outdoors: 0 (0%)
  - Applies Indoors and Outdoors: 7 (11.5%)

If applicable, please list Other pesticide applicators here:

does not apply pesticides
school/custodial staff
Custodian

Only box that was checked was child care staff applies indoors
custodian
maintenance

17. Have you requested an emergency exemption under the Child Safe Playing Fields Act?

- Yes: 2 (3.1%)
- No: 16 (24.6%)
- I don't know what this is: 47 (72.3%)
Interest in Integrated Pest Management

18. The NYS IPM Program is interested in providing information to child care staff to promote the health and safety of children and staff, reduce liability, and provide guidance to help staff take a leadership position with regards to pests and pest management. How would you like this information? Check all that apply.

- Workshops or Seminars: 28 (41.8%)
- Webinars: 23 (34.3%)
- Videos: 15 (22.4%)
- Consultation with a Cornell IPM expert on pest issues in our facility: 19 (28.4%)
- Web site: 26 (38.8%)
- Factsheets: 36 (53.7%)
- Brochures: 31 (46.3%)
- Email newsletter: 26 (38.8%)
- Blog: 2 (3%)
- Educational materials for staff: 40 (59.7%)
- Educational materials for parents: 35 (52.2%)
- Educational materials for the landlord or building manager: 16 (23.9%)
- Lesson plans for children: 21 (31.3%)
- Other social media such as Facebook, Twitter, Instagram, etc.: 2 (3%)
- Listserve: 1 (1.5%)
- I am not interested in learning about IPM at this time: 4 (6%)