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**Paul Bello BCE** - Bees & Stored Prod.

**Claudia Riegel PhD** - Mosquitos & Zika

**NV Dept. of Ag.** - Laws & Regs

**Patt Copps BCE** - Rodents

**Jeffrey Weier BCE** - Ants

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## PRESIDENT'S MESSAGE



**By Joey Toth**  
NVPMA President  
[pres@nevadapma.org](mailto:pres@nevadapma.org)

**W**hat a year 2016 has been. It seems like we blink and another year has passed. For some, with all the federal election drama, the end of the year couldn't have come quicker. Unfortunately, with the close of the national political season, thus begins the dance that is Nevada politics.

The Nevada Pest Management Association (NVPMA) is diligently following the bills and changes to the NACs and NRS. We see promising changes to some administrative procedures, but there are also some dangerous regulation changes that the NVPMA feels would hurt our industry. I am confident that our Legislative Committee will be working hard to restrict the oncoming wave of regulations that threatens to overburden our companies and take us away from our primary focus: protecting the people and properties of Nevada from nuisance and potentially dangerous pests.

If you would like to help out and get a better view of the oncoming legislative efforts that could affect our industry, I would like to encourage you to reach out to the Legislative Committee and get involved.

Membership in the NVPMA has expanded significantly this year. We will be looking to expand representation into several states this year including Idaho and Hawaii. This year we will be focusing our efforts on expanding our "Premium" membership numbers and offerings. Beginning in 2017, our Business Development Workshop Series, as well as inclusion in the Bee Hotline, will be restricted to the premium category.

I am honored to be serving as the President of our association. Thank you for the opportunity to be of service. Personally, I am a member of our association because I find value in supporting the industry that I call home. I know that you see the value in partnering with us and in working together to protect our industry. I am looking forward to 2017 with optimistic eyes.

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**President** - Joey Toth  
[pres@nevadapma.org](mailto:pres@nevadapma.org) • (702) 808-0317

**Vice President** - Lonnie Tucker  
[vp@nevadapma.org](mailto:vp@nevadapma.org) • (702) 824-5310

**Secretary** - Misty Goodroad  
[sectreas@nevadapma.org](mailto:sectreas@nevadapma.org) • (702) 522-8300

**Association Coordinator** - Jason Mayers  
[membership@nevadapma.org](mailto:membership@nevadapma.org) • (702) 502-6572

**Graphic Designer** - Bob Burch  
[bob@bobburchdesign.com](mailto:bob@bobburchdesign.com) • (702) 565-2983

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## DUSTERS - STILL A VALUABLE TOOL



**By Austin Frishman, Ph.D., B.C.E.**  
President AMF Pest  
Management Services, Inc.

**A**lmost 50 years ago an elderly gentlemen (probably younger than I am now) taught me how to use a duster. The B & G compressed sprayer was new then and he looked at it as an upstart piece of equipment which could never replace his good old duster. After about an hour of practice, I was good enough to write my name in light dust on a vertical stone wall. It would have been easier if my name was B.J.

### Here are twenty tips on using a duster:

Dusts are most effective when lightly applied. Allow air to mix with the dust. On small hand dusters this generally means holding the duster upside down while puffing.

Insert a plastic tube over the tip if the tip is metal. It helps avoid electrical shock and allows you to bend the tip and push the dust in more directions. I use small lengths of plastic tubing used as tubing for an aerator for a fish tank.

Use a small (about six inch square) piece of cardboard to place at the tip of the duster to minimize bounce back from a crack. You punch the tip of the duster through the center of the cardboard. You can also use the plastic see-through caps used to cover cups in fast food restaurants. Make sure the cap is not labeled as a food product.

Before dusting into a void or crack, check it with a flashlight. Make sure you are not pushing dust into an open area on the other side of the wall.

Install two marbles in the duster. It keeps the dust from clumping. In Arizona and Nevada, you can skip it.

Avoid:

- Treatment near pilot lights
- Treatments in high explosive areas
- Use in suspended ceiling
- Use in and around computer
- Use near compressors and fans

- Use where people and other animals can track it
- Use in areas where food could become contaminated. (ex: Bakery)
- Use in any post office

Wear proper gloves.

Carry paper towels to pick up spills.

Do not keep dusting the same crack over and over again.

Do not apply liquids on top of dust.

If the label calls for a respirator and/or goggles, do so.

If you are required to use a respirator, than no one else should be in the room at the time of the application.

Small hand dusters can be stored in a plastic zip lock bag. Label the bag as to the contents of the duster. Trying to label the actual duster is almost impossible if you expect to use the duster on a frequent basis.

### LLOYD SMIGEL'S DISCOVERY RETREAT SEMINAR HE'S BACK - ALL NEW AND IMPROVED! COMMERCIAL SALES TRAINING COMING THIS SUMMER AND FALL!

Selling Commercial Accounts is a lot different than selling residential. Have you noticed that? Of course you have. This Seminar is totally dedicated to selling commercial accounts. Whether you are in Sales or Management or Sales Management, here is your opportunity to learn how to sell commercial business more professionally. Let's all get together and have it out. What works, what doesn't and how to we go from a reactive sales organization to a PROACTIVE sales company. This retreat is designed to have your ready for a sales department in 2017. If you're serious about a sales department and tired of saying - "Someday I'm going to work on it." - NOW is the time - Let's do it!!

#### WHO SHOULD ATTEND?

**Decision Makers:** Managers/Owners/Supervisors. Everyone is welcome!  
**Why?** Because ALL of them will be directly affected by the Sales Policies that you want to implement for your company. Avoid the potential problems in advance - be proactive rather than reactive.  
Women owners and managers are encouraged to attend.

#### PRESENTED BY:



**Lloyd Smigel**  
Industry Guru



**Pat VanHooser**  
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# FREEDOM OF CHOICE



**By Lloyd Merritt Smigel and Pat VanHooser**  
*Care Management Consultants*

It is my belief that most of us living in this country have the Freedom of Choice. We can pretty well make our own decisions. It's up to you to go on Food Stamps (or whatever they call it today) or you can work. If you want to sit around and gripe about your job, or if you want to just get another job, you can. If you want to marry for love, or if you want to marry for money (do both). If you want to work hard and make a success out of yourself, or you want the wealth quicker and rob a bank - Up to you.

For the most part, we do have choices. It has always been my belief that employees are a responsibility, and it is the job of management to help employees grow and prosper, as well as see the company grow and prosper. That is a choice. I could have taken all of the money and not given opportunities to grow and prosper with the company. But what goes around comes around.

Using this same thought process, Lloyd and I agree that it is our responsibility to help set a path for others to succeed. As an example, if you are on a route - how can you make additional income? If you learn how to sell and service correctly, your route will grow, you won't lose a lot of accounts, you won't have a lot of callbacks, and you will earn more and more money. Over the years, due to route growth and price increases and more training - you should be able to earn more and more. Helping you EARN more money and guiding you towards more success - we all win.

On the other hand, if you CHOOSE NOT to work at it and expect more money because you deserve it - although you lose accounts, your route is shrinking, you don't add to your route, your accounts cancel due to poor service, poor attitude, etc., but you still feel you deserve more. That's a problem.

It is often a combination of greed and attitude from both employee and employer that causes problems.

Management should always be looking for ways to help improve production so that the employees can do better. The employees have to do their share as well by increasing their numbers. If both 'sides' are willing to work at it - life is good. If, on the other hand, either side is not willing to do their share - it doesn't work and there's turnover and everyone loses.

Then again, there is only one thing worse than the disgruntled employee who stays with the company, and that's when the disgruntled boss doesn't do anything about it. So everyone complains behind everyone else's back, and all those around both sides have to either get ear plugs or wait till they age enough and their hearing gets bad.

We think it is best to either address and correct the situation, and/or one of you - Move on.

Gotta love that Freedom of Choice - so decide already.

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# PEST MANAGEMENT STARTS FROM THE OUTSIDE



**By Patrick Copps**  
Technical Services Manager  
Orkin - Pacific Division

**W**here does your focus on pest management begin? If it doesn't start outside, it's starting too late. And if the only pest management concerns outside are addressed by a residual application, the focus is incomplete.

Trees, landscape plantings, lawns, parking lots, water features and even the roofline can play big roles when it comes to managing pests in residential and commercial settings. Pests may show up inside, but most of them start on the outside – something that you need to keep in mind if you want to avoid a callback. Look for the root cause for any pest issue. Resolve that and everyone wins.

From pest birds and rodents to ants, flies, stinging insects and cockroaches, the outside of a property can serve as a welcome mat for some of the most difficult pests to control. An exterior landscaping and maintenance program that doesn't keep pest management in mind can lead to more problems inside and out. Unfortunately, few homeowners consider pest management when installing or modifying their landscaping.

Fortunately, there are many steps you can advise a homeowner or commercial property manager to take with outdoor landscaping and maintenance to keep pests outside and at a distance. These practices should be part of a broader Integrated Pest Management (IPM) program, which focuses on a proactive approach to address all conditions conducive to pest infestation and help stop pest problems before they start.

#### What's at stake?

Ants, flies and cockroaches, which Association for the Healthcare Environment members listed in a 2013 survey as the most difficult pests to control in healthcare facilities, don't just show up inside hospitals, schools or homes. These pests all threaten the outside of a facility or home before getting in. In the same vein, stinging insects, mosquitoes and pest birds can also be difficult to control if these critters are attracted to the outside of a home or business by poor trash handling, overgrown landscaping and clutter.

Inform your customers about the importance

of managing the conditions that attract pests. Remember, biting insects like mosquitoes or stinging pests like wasps can cause skin irritation that produces swelling and mild to severe itching in many people, while others may develop more severe allergic, even asthma-like reactions. Cockroaches and ants pick up bacteria as they crawl and can transfer these potential pathogens to human hosts. Rodents including both rats and mice are also associated with potential disease transmission. Flies spread microorganisms including disease-causing organisms everywhere they land. Often overlooked are pest birds; in addition to causing tens of millions of dollars' worth of property damage every year, the presence of pest birds can also lead to health risks. In fact, according to the Centers for Disease Control and Prevention (CDC), bird fecal matter can contain disease organisms such as histoplasmosis, toxoplasmosis or cryptococcus, which can cause serious health issues. Bird ectoparasites including mites can bite people and potentially transfer disease.

When you know the dangers these pests can pose, it's time to ensure you provide an effective exterior IPM service.

#### Consider the plants

Some trees, flowering plants, grasses and bushes can attract and even harbor pests, which are always looking for sources of food, water and shelter.

Flowers in bloom can be alluring with their looks, but they can also attract unwanted flying pests – like bees. Fragrant and brightly colored flowers attract bees and other flying and stinging pests, so consider advising your customer to plant fewer of these very close to outside areas used for dining or a child's play area to help decrease the risk of stings.

Plants bearing nuts, seeds, full-season flowers or fruits should also be avoided close to a home or business because they attract pests including mice looking for a quick meal. Additionally, be sure to advise your customer to minimize ground covering plants (like ivy), as these can provide cover and shelter for both insects and rodents.

As for what to spread around plants, organic mulch is also a harborage for pests. The moisture in organic mulch attracts a variety of insects and rodents, from roaches to mice, and these pests will often congregate in areas where thick mulch is applied. Keep in mind that some mulches and potting soils contain "sewage sludge" – a big attractant for flies so ask the customer to check the label prior to purchasing the product. Consider using a dry mulch like pencil cedar mulch, which retains less moisture

*Continued on page 20*



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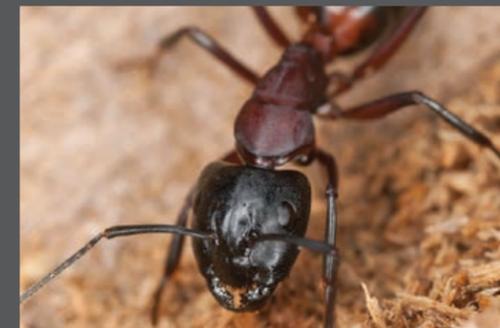
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# MONITORING COCKROACH MAYHEM



**By Dr. Stuart Mitchell**  
PestWest USA

**P**est infestations are crime scenes. Pest management professionals are crime scene investigators. Successfully solving, and preventing future, pestiferous crimes involves monitoring cockroach mayhem.

In forensic science, Locard's Exchange Principal holds that the perpetrator of a crime will bring something into the crime scene as well as leave something with it. In other words, no pest commits a crime without leaving something behind and/or changing the environment. The longer the time, the more exchange of evidence.

Additionally, pest-sighting testimony from personnel must be investigated. Even though "recollection" sightings are unreliable due to the vagaries of human memory.

It is critical to properly identify the perpetrating cockroach species. Correct

identification provides essential cockroach modus operandi via biology and behavior. The cockroach species determines crime scene locations.

As a general rule of pestiferous crime scene investigation using monitoring devices, the main purpose is to obtain actionable pest evidence. Many monitoring devices are not designed as a method of pest population reduction.

During an investigation, monitoring devices must be placed in the most strategic positions to provide the best physical evidences. Pest detectives determine position from knowledge of pest biology, behavior, and the physical site layout. Final monitoring device position is generally a compromise between the best possible site, its accessibility, and whether or not the monitor will remain undisturbed.

Adhesive monitoring traps are effective for monitoring cockroaches in three dimensions. Label monitoring traps with an arrow to indicate their orientation as traps may become dislodged during use (allows placement back into the correct orientation). By contrast, labeling with arrows indicates the direction that the cockroaches are entering the trap (providing further clues as to the characteristics of the perpetrator and infestation crime scene).

Large adhesive traps may be used where pest infestations are heavy, but where pest infestations are forecasted to be light, a greater number of smaller adhesive traps should be deployed. Some adhesive traps incorporate food and pheromone lures.

The presence of cockroaches in a monitoring trap provides essential physical evidences as to species as well as the scope and age of the infestation. Determining the scope of a cockroach infestation will require several monitoring traps. The number of cockroaches trapped depends upon several factors. A few include the initial size of the infestation, how long the traps have been in place, and trap effectiveness.

Thorough surveillance through monitoring provides essential physical evidences for best allocation of pest management resources. Look for fecal smears droppings, cast cuticles, egg cases, and live and dead cockroaches. Heavy cockroach infestations often have a

characteristic smell.

Captures found in monitors are essential crime scene evidence (recent cockroach activity). Presuming the monitoring traps were refreshed on the last inspection, any cockroaches found will have emerged within the intervening period. Adhesive traps are a "video vs. snapshot" as they actively detect cockroach perpetrators 24/7/365.

A study concluded that populations of cockroaches make collective decisions about harborage or refuge. When a space was large enough for all of the cockroaches, all remained in place. When a large space was not available, cockroaches divided into equal groups to fit into the smallest number of other spaces.



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# SETTING THE TONE



**By Paul J. Bello**  
PJB Pest Management Consulting  
Author: *The Bed Bug Combat Manual*

Since beginning as a licensed applicator in 1976, it's clear that I've been doing pest work a long time. Pest pros see all sorts of things when working in customer's homes. But it was when working as a pest management consultant on a bed bug remediation project that an incident happened that would forever set the tone for how I conducted bed bug work from that day forward.

I received a call seeking assistance at a large apartment complex. The call was from the property owner who had been referred to me by an industry colleague. Our initial conversation indicated that the apartment complex was experiencing a long-standing bed bug situation of at least four years and that it had progressively worsened. They were on their fourth pest company. They had simply had enough and were at their wits end. During the conversation, an action plan regarding the necessary remediation work was discussed and agreed upon.

Soon after, I was on location and up to my neck in bed bugs. It was immediately clear that the problem would never be eliminated if the work being done was allowed to continue as observed. The efforts were haphazard and ineffective. No one involved was happy. Much correction was needed.

Work began with an inspection of the facility. The complex was large. Hundreds of apartments were infested. Infestations varied from very light, where just a few bed bugs were present, all the way to severe, where the apartment was a "bed-bug-ground-zero".

As a pest pro I've entered countless homes. Some are neat and clean, others not so much. Except for the presence of bed bugs, this location was similar to others I had visited in the past as far as the living conditions observed.

In one particular apartment something occurred which I'll never forget, the incident that set the tone for me on bed bug work. It remains a vivid memory which serves me to help my clients. In fact, it was such an influential moment that it was included in the beginning pages of *The Bed Bug Combat Manual*. It is intended to help others adopt a similar mindset regarding bed bug work.

Upon entering this apartment, I was struck by how neat, clean and orderly it was. It was modestly furnished but very clean. It was the literal translation of the "you can eat off the floor" type home. At home was a young mom and her infant son, who was lying in his crib. It was visually obvious that there was a bed bug



**Photo 1:** Note the infant boy lying in his crib and that this apartment is neat and clean as described in the story.

problem as evident by the numerous bite marks on the mom's arms and on her baby's arms and legs.

In speaking with her, the absolute despair she felt soon became readily apparent. She related that despite her best efforts to keep her home clean, she could not prevent her baby from being bitten by bed bugs. She didn't know where they were coming from or how they were able to get to her son, her husband and herself.



**Photo 2:** Upon thorough inspection and dismantling of the crib numerous fecal stains, bed bugs and eggs were found on the crib frame as seen here.

*Continued on page 24*

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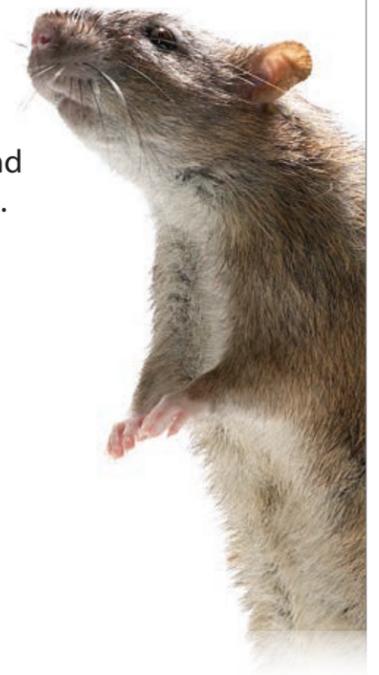


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# PEST MANAGEMENT STARTS FROM THE OUTSIDE

Continued from page 8

and can actually repel certain types of crawling insects. *Tip* - Be sure to remind the customer to check with their landscaper regarding the phytotoxicity of the mulch before they use these products.

### Recommend creating a buffer

Bushes and tree limbs that brush up against a home or business can give crawling pests an entryway inside. A vegetation-free buffer can help take this entry option away. Advise the customer to trim bushes, trees and plants to create and maintain at least a two-foot buffer between walls and any vegetation. To ensure the effectiveness of the buffer, be sure that there are no piles of bricks, firewood or other materials against the walls.

### Check the Trash

When inspecting outside, look for trash cans that may need cleaning or dumpsters with open lids which can be a gold mine for pests looking for food. Additionally, keep in mind that odors from matter decaying in dumpsters can attract pests. Be sure to advise the customer to position them away from the building and rotate them for thorough cleaning on a regular basis.

### Keep up with exterior maintenance

Keep an eye out for any cracks that may be present around utility penetrations or in walls and

consider providing a service to seal them with a weather-resistant sealant and metal mesh to prevent rodents from gnawing through. Many pest management professionals will install weather stripping around doors and windows or door sweeps if needed since even gaps as small as 1/8" can allow some pests to enter.

### Look for breeding and harborage sites

Mosquitoes can breed in standing water which may be present in puddles, depressions in a lawn or drainage swales. However, don't overlook birdbaths, fountains, ponds and even containers of water since these are all potential homes to hundreds of biting insects. Running water can help thwart mosquitoes from laying eggs on the surface, so be sure to recommend that the water in any ponds or fountains is circulated continuously. Also, check for pest insects, scorpions and rodent activity around trees or built-in features like barbecues - these are particularly prone to rodent infestation.

### Be a good partner

One of the hallmarks of IPM is that pest control is a shared responsibility. Work with your customer to obtain the results they deserve. By working together and focusing on outside areas, everyone benefits - except pests.



## NEVADA PEST MANAGEMENT ASSOCIATION UPCOMING EVENTS CALENDAR

### WORKSHOPS:

- March 29, 2017** • 1-3pm  
**BEE HOTLINE/QUARTERLY MEETING** • Orleans Hotel
- April 27, 2017** • 6-8pm  
**MARKETING** • Orleans Hotel
- May 31, 2017** • 1-5pm  
**BEDBUG SUMMIT** [Bedbug Central] • Orleans Hotel
- August 31, 2017** • 1-3pm  
**TRUCK INSPECTION/RECORD AUDITS** • TBD

### QUARTERLY NVPMA MEETINGS:

- January 31, 2017** • **PEST EXPO** • 8am-5pm  
Orleans Hotel
- April 27, 2017** • **BEE HOTLINE** • 6-8pm  
Orleans Hotel
- September 28, 2017** • 6-8pm  
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Upcoming events are listed online at our website, [nevadapma.org](http://nevadapma.org)

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# THE REGULATORY CORNER 2017 LEGISLATIVE PREVIEW OF PROPOSED UPDATES TO PEST CONTROL STATUTES



**By Scott Cichowlaz**  
Nevada Department of Agriculture  
Pest Control Continuing Education  
Coordinator

**A**t the Nevada Department of Agriculture (NDA), our primary purpose (and the reason for all of the regulations that govern our agency) is to protect public safety. As technology evolves and the pest control industry changes, we need to consistently review and sometimes revise Nevada Revised Statutes (NRS) to achieve that goal.

In February, the 79th session of the Nevada Legislature will begin, and our NRS Chapter 555 has been submitted for review to ensure the statute is current, accurate and most importantly, written in the best interest of public safety. Below is a summary of the draft revisions and how they might affect the pest control industry.

## Licensing government applicators

Licensing government applicators has been a historically grey area for the NDA and its pest control operator licensing program. The statute, as it is currently written, requires any “person” who/that performs pest control shall have a license (NRS chapter 555.280) for hire. “Person,” as defined in NRS Chapter 555.266, includes “a government, a governmental agency and a political subdivision of a government.” However, to further confuse the situation, NRS Chapter 555.2667 states that pest control is the “use for hire” of pesticides, devices and inspections. Based on this terminology, the regulation may exclude pest control operators who are employed by government agencies. This means pest control operators applying pesticides in public spaces, city parks, near waterways or on school properties may not have the necessary understanding of pest control products and safe applications.

Because public safety is our priority, our recommendation to the legislators is to require government applicators to obtain a license through the NDA. The new language in the draft bill removes the words “for hire” from NRS Chapters 555.280 - 555.285, ensuring that anyone applying pesticides “as an agent, consultant, demonstration and research specialist, operator, pilot, primary principal or principal for that

purpose within this State” is required to do so under a license issued by the NDA.

## Defining “gardener”

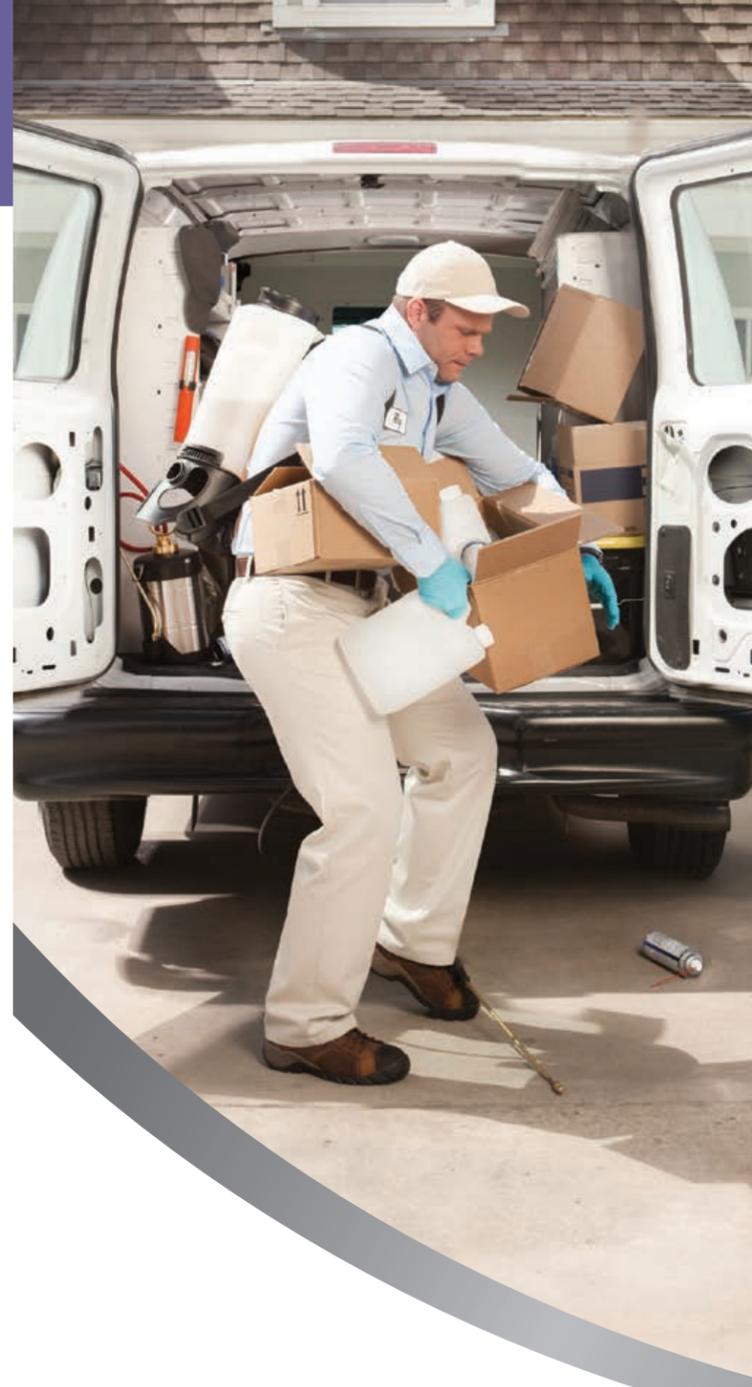
The second significant change is to NRS Chapter 555.277, regarding the exemptions from certain provisions for farmer-owners and landscape business owners. The draft bill further defines “gardener” as a person who “typically owns or works for a business that provides routine lawn and garden care for homeowners.”

This chapter will still provide an exemption to gardeners that do not advertise or solicit pest control whose cost of applying pesticides does not exceed 20 percent of the total compensation and use low toxicity pesticides to landscapes. The additional specifications ensure only the businesses the regulation was intended for take advantage of the exemption: farmer-owners and landscaping businesses that provide routine lawn care for homeowners, not large scale commercial landscape businesses.

*Scott Cichowlaz is an agriculturist and continuing education coordinator for the Nevada Department of Agriculture’s Pest Control Program. He has served the southern Nevada pest control industry for 24 years.*

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# SETTING THE TONE

Continued from page 12

She was doing the best she could but nothing was working. At this point, she literally broke down in tears while holding her baby in her arms and crying on my shoulder.

This is not easily forgotten. It was “the hook” that shaped my bed bug outlook and mindset to this very day. I promised that we would be taking care of her problem and saving her and her family from bed bugs immediately. The mission here was easily defined as: (1) save these people from being bitten by bed bugs, and, (2) save their assets (i.e., prevent them from having to throw out their infested beds and furniture that they could ill afford to replace). We’d accomplish the mission by delivering zero bed bugs. To deliver zero bugs, a thorough and comprehensive work effort was required.

Since that time I have performed bed bug remediation projects at many locations. I am continuously surprised by how this pest can adversely affect so many people on an emotional and

psychological basis. Speaking with numerous bed bug victims, I’ve come to understand that it may not be the bugs themselves, but underlying issues that bed bugs trigger which unnerve people.

There are a multitude of reasons bed bugs affect people as they do. Some of these include: the social stigma, the cost of remediation, the feeling of isolation, the fear of spreading them to friends and family, the sleeplessness, the loss of control, the fact that they attack in the most intimate place (your home, your bed) and the feeling that you can’t protect your children from them. There may be others but it is clear that bed bugs cause anxiety, stress and emotional turmoil to their victims.

When work seems to get to be too much or too difficult, I remember this mom, her son and many other bed bug victims encountered. It serves as a reminder that these folks are counting on us to save them from bed bugs. Thanks to this young mom and infant son... the tone was set; and set in stone.

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Rodents prefer foods high in protein and fat so skip the cheese and go for peanut butter or beef jerkey when nut allergies may pose an inssue.

### Get A BUZZ! - These jokes are the bee's knees!

Q: What do you call a bug that has to monitor it's sugar intake?

A: A diabe-tick!

Have an industry related question, tip, joke? Then buzz over & drop us a line at [thebuzz@nevadapma.org](mailto:thebuzz@nevadapma.org) & bee on the lookout for new answers, facts, tips & laughs in each issue of NVPMA Magazine right here on **THE BUZZ**.

When submitting questions to THE BUZZ please give as much detail as possible. Questions that are not chosen to print in the magazine may be answered via e-mail. Please provide your first name and city when making any submission, only your first name & city will be displayed. All submissions to THE BUZZ will be available on the association website @ [nevadapma.org](http://nevadapma.org).

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*By Jeff B. Knight, Entomologist  
Nevada Department of Agriculture*

**Mosquitoes and midges:  
How to spot the differences**

The Nevada Department of Agriculture (NDA) has seen a rise in requests for identification of both mosquitoes and midges because of increasing concern regarding diseases transmitted by mosquitoes. Both mosquitoes and midges are in the order Diptera or the true flies. This order can be readily identified because the adults have only one pair of wings and both have a complete or four-stage life cycle (egg, larvae, pupae, adult). The larvae of both mosquitoes and midges are aquatic, so higher numbers are found around wet environments.

**Mosquitoes**

Mosquito adults can be recognized because they have long, tube-like mouthparts for feeding (Fig. 1). Females may feed on nectar but require a blood meal to lay viable eggs. Males feed on either plant sap or nectar. Mosquitoes differ from midges by having hairs or scales on their wings (Fig. 2) and their bodies are patterned with gray, black, white and/or brown scales.

Mosquito eggs are laid in a variety of locations, typically on or near water depending on the species. The eggs hatch into larvae that remain near the surface breathing through short tubes and rapidly twist when disturbed, thus the common name, "wigglers." The pupae are also found near the surface and are called "tumblers" for the action they take when approached. The entire process from egg to adult can be as short as two weeks under ideal conditions, depending on the species.

Adult mosquito control is usually only temporary. For effective control, the source where the larvae are developing must be found and treated. An accurate identification of the mosquito to species level will help in finding the source.

**Midges**

Midges are often reported in high numbers near water sources rich in organic material. Although the

numbers can often be a nuisance, these insects do not bite and in fact have very reduced mouthparts (Fig. 3). The wings are generally very clear and have no hairs on the edges or veins of the wings like mosquitoes (Fig. 4). The bodies of midges are generally a drab white or tan color but are sometimes green to greenish blue.

Midge larvae are found in a variety of places but most often on the bottom of ponds in the decaying organic material. In many species, the larvae are bright red from the hemoglobin in the "blood" of the insect.

Adult midges are highly attracted to lights, which may cause them to concentrate around homes and businesses. Changing light bulbs to a yellow or amber color will help eliminate the problem since these have little to no ultraviolet wavelengths. Finding the ponds that are the source of the midges and aerating them regularly will reduce the amount of organic matter and the midge problem.

*Mosquito and midge photos are courtesy of: A Guide to the Mosquitos of Nevada by Will Lumpkin and Lee Lemenager.*

*The Nevada Department of Agriculture's entomology program identifies, surveys for, and controls native and exotic invertebrate pests, applicable quarantines and regulations.*



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