An Act Concerning the Rights and Responsibilities of Landlords and Tenants Regarding the Treatment of Bed Bug Infestations

Dr. Gale E. Ridge
Chair of the Connecticut Coalition Against Bed Bugs,
The Connecticut Agricultural Experiment Station, New Haven, CT 06504

This bill addresses public issues of bed bug management in Connecticut to facilitate cooperation and communication between landlords and tenants. (Doggett 2012; Anderson 2008; Leverkus 2006; Abdel-Naser 2006; Pritchard 2009; NPMA 2010; Goddard 2012; Rieder 2012; CDC 2011). I will address two points, the use of “Over the Counter Pesticides” (OCP’s) and vacuuming by landlords to treat for bed bugs.

The EPA (Environmental Protection Agency) and CDC (Centers for Disease Control and Prevention) consider the Common bed bug, (Cimex lectularius L.), a pest of “significant public health importance” and an increasing health problem throughout the United States (Rajeev 2013; CDC 2010). The CDC documented 111 cases of pesticide poisoning through misuse by untrained citizens against bed bugs (CDC 2011).

The trend for bed bug infestations to increase in private homes, condominiums, and apartments “shows no sign of slowing down” (Pinto et al. 2007; Hwang 2005; Potter 2005; Doggett 2007), due to pesticide resistance (Anderson 2012; Romero et al. 2007, Yoon et al. 2008, Seoing et al. 2010, Zhu et al. 2010; Adelman et al. 2011; Moore and Miller 2009; Wang et al 2009; Johnson 1948 (who noticed DDT resistance)) and innate bed bug behavior (Usinger 1966, Kemper 1936; Hase 1917; Johnson 1942). These are shy, crack and crevice insects, that move between a host and their harborage. They cause very high levels of anxiety from their human hosts, which is an example of a host-parasite complex. For millennia they have adapted against predation and human efforts to exterminate them (Potter 2011; Johnson 1939). One of their many survival strategies is that females hide eggs. I have discovered that females during their reproductive cycles frequently hide eggs away from their harborage, which is a form of biological insurance policy. Thus in the event that a clutch is attacked or destroyed, the sequestered eggs may likely survive to hatch. Knowing this, it is suggested that landlords be encouraged to vacuum cracks and crevices (paragraph b1, page 2 of the bill), to intercept nymphs that may have hatched from these sequestered eggs.

Additionally, there is interest to include language in the bill, allowing landlords to self-treat. Research at The Connecticut Agricultural Experiment Station and elsewhere, repeatedly show OCP Type I pesticides
sold to the public, are ineffective. Type I OCP’s are less than 5% effective whereas Type II pesticides, available to Pest Management Professionals (PMP’s) are up to 95% effective (Anderson and Cowles 2012). Having untrained citizens treat for bed bugs is almost always ineffective. If this clause is written into the bill, I suggest the following to increase the likelihood of success:

1) before treating for bed bugs, a landlord should vacuum cracks and crevices inside a living space that includes furniture, all framing, baseboards, and outlets, etc. to remove bed bug protective debris and the insects themselves; as well as allowing OCP’s, if bought, deeper penetration into voids

2) a landlord should only treat once before engaging a PMP, to minimize pesticide overload in a building (CDC211), and

3) 10 days post treatment (a timing to intercept bed bug biology), a trained Connecticut licensed PMP must be called to inspect. Photographs of cleaning and evidence of what pesticides were used and how much, should be presented to the PMP. This will assist the PMP in assessing safety levels of pesticide load in a building. If live bed bugs are found and the PMP is engaged, it will be useful information in deciding best Integrated Pest Management (IPM) practice measures, for a safe effective treatment.

As one who deals with numerous landlord/tenant bed bug issues, I feel this bill will provide a framework on which landlords and tenants might work together. It is a great improvement over current statutes and is applicable to addressing the complex issues that are encountered in regard to this insect. I support this bill.

References


