

Silverfish, Firebrats, Booklice, and Springtails

Inconsequential insects often found in sensitive environments

Nebraska Extension





These insects feed on organic matter

- *Paper, book bindings
- Starchy materials
- Fabrics and wallpaper
- *Mold





Springtail









Silverfish and Firebrats

- About $\frac{1}{2}$ long when fully grown
- 2 long antennae and a flattenedcarrot shape
- Wingless
- 3 long appendages on the posterior end





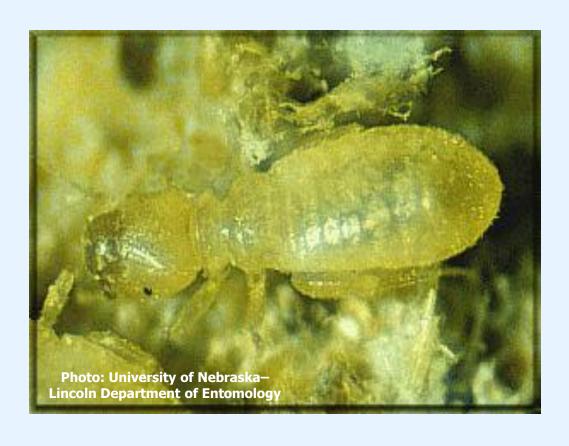




Booklice



- *Tiny, grayish, soft-bodied insect
 - Crawling, often around paper
 - *Wingless







Springtails

- Tiny jumping insects
- Found in damp locations or around potted plants or greenhouses
- Feed on mold, fungi



Furcula, a forked structure, that helps springtails jump





Silverfish and Booklice

- Associated with cardboard boxes of materials stored in damp places
 - Store materials in plastic bins with tight-fitting lids









Firebrats

- Look like silverfish, but often brown
- Prefer moist areas above 90°F
- Most commonly found in furnace and boiler rooms







Monitoring

Any kind of sticky trap will catch these insects

Photo: University of Nebraska-Lincoln







Non-chemical management is best

- ❖ Fix moisture problems
- *Reduce humidity to <50% in libraries and paper stock rooms
- Use desiccants, if needed
- Reduce overwatering of plants
- Greenhouses may need special attention





Credits

Content Specialist

Barbara Ogg, Nebraska Extension Educator Emeritus

Content Editors

- Frin Bauer, Nebraska Extension
- ► Clyde Ogg, Nebraska Extension

Photos

- Barbara Ogg, Nebraska Extension Educator Emeritus
- Department of Entomology, University of Nebraska-Lincoln



Credits

Photos cont.

- Department of Entomology and Plant Pathology, Oklahoma State University
- Department of Entomology, North Carolina State University
- Department of Entomology, University of Georgia
- >Clyde Ogg, Nebraska Extension

Note: Photos and artwork not credited are public domain/clipart



