Self-Treatment Methods for Livestock—Backrubbers

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Back rubbers are a method of pesticide self-treatment for cattle. When bothered by insects or other pests, cattle tend to rub against objects. Backrubbers provide a rubbing surface that is treated with a pesticide. Cattle self-treat during rubbing, which reduces the number of flies, particularly horn flies, and parasites such as lice, on the animal. Backrubbers may be purchased commercially or constructed from easily available materials. A properly designed backrubber that supplies pesticide reliably to the animal can be a valuable addition to an integrated pest management program. Pesticide regulations differ by animal type and may differ between states. Therefore, check local labeling for your state. Local or University Cooperative Extension Service sites are excellent sources of such information. Florida residents should refer to pest management guidelines for their species of livestock. Livestock-specific guidelines can be found at: http://edis.ifas.ufl.edu/topic_in_pet_and_livestock_pests

The position of the backrubber is of highest importance. Positioning should “force” animals to use the devices frequently so that they will be effective. Backrubbers should be installed in high-traffic areas where animals travel through frequently, such as between mineral and salt stations, or feeding and watering areas and pastures (Figure 1). To ensure treatment of the head, the backrubber should be positioned low enough so that the animals are forced to drop their heads to pass under. Underbrush often will compete with backrubbers for scratching, so locations with shrubs should be avoided. Placement of devices between feed, water, or supplement improves fly control, but use should be monitored. Each animal must contact the backrubber every two to three days to be effective.

### Materials needed for a cable-type backrubber
- Two four-inch eyelets or eyebolts
- Hog rings and pliers, as needed
- 15 to 20 feet of 9-gauge cable or chain
- 18 to 20 burlap bags (can be new or used)
- Two eight-foot by six-inch-diameter posts, pressure treated
- 30 to 40 strands binder twine (15 inches long)
- 20 to 25 strands baling wire (12 inches inches long)

### Construction of cable-type backrubbers (see figure 2)
1. Attach bags lengthwise on the chain using hog rings at ten-inch intervals (Fig. 2-1).
2. Roll bags tightly and tie securely around the chain with binder twine (Fig. 2-2).
3. Wrap the rolled bags with a second layer of burlap, making sure to overlap the areas between bags (Fig. 2-3).
4. Twist baling wire every 8 inches along the backrubber. Clip the wires and push the cut ends into the burlap (Fig 2-4).

5. Hang the backrubber between the posts so that it will sag to within 1–1½ feet off the ground (Fig. 2-5).

6. Pour one gallon of recommended pesticide on 15–20 feet of backrubber (Fig. 2-6).

**Use of cable-type backrubbers**

- Backrubbers may be modified to suit the management practices of any farm. The treated backrubber may be attached to trees or braced with wire and/or posts (Figure 3).

- Approximately one gallon of recommended pesticide should be used to treat a 15- to 20-foot backrubber.

- The backrubber should not be dripping; adjust volume added accordingly.

- One-gallon oil cans work well for applying the pesticide oil suspension to the backrubber.

- Re-treat the backrubber every 2–3 weeks.

- One 15- to 20-foot backrubber should be available for every 50–75 animals.

- The addition of 18-inch strips of cloth at 4- to 6-inch intervals increases the area of contact and can increase insect control.

- Use livestock-grade mineral oil unless otherwise recommended on the pesticide label.

- Consult the Florida Insect Control Guide for recommended pesticides and rotate insect classes between treatments.

- DO NOT use wettable powder formulations. They are unsuitable for backrubber use.
• DO NOT use diesel or kerosene because they evaporate quickly, which means that transfer of the pesticide will be low. These oils also may irritate the animals’ skin.

• DO NOT use vegetable oil because it encourages licking and accidental ingestion of the pesticide.

• DO NOT use motor oil, transformer oil, or oil of unknown origin.

• DO NOT spray pesticide oil suspensions directly onto animals.

Figure 2. Construction of a cable-type backrubber.


**Selected References**


