and

later.

months.

Ask the **VMD**







Using insecticides to

combat the larva can lessen

insecticides, however, not

possibility of potentially bad

If grubs are killed when

they are located in the throat

area, their death may set up

a tissue reaction which could

possibly cause the animal to

When using insecticides,

be sure to follow the label

directions carefully, noting

especially the withdrawal

times before the animals can

be slaughtered for meat.

strangle.

side effects to the livestock.

larva penetrates the skin

migration through the

connective tissue. It travels

to the area of the throat, then

up to the back where it cuts a

hole in the skin, increases

the size, and drops out two

and a half to three months

After the larva pupates, an

adult fly emerges to begin a

new life cycle. The complete

cycle takes about seven

damaging to sheep and

cattle, and when the profit

loss starts, is as the grub

enters the exits the skin. As

the larva migrates, it

destroys muscle and skin

tissues. To cope with the

toxins produced by the grub,

the animal turns its energy

Where the fly becomes

begins extensive

Leon Riegel Tim Trayer Edgar Sheaffer

to

results in

weight gains.

Pop! bottles for grubby livestock? A reader asks:

What's the best method for removing grubs from the backs of cattle and sheep. I've seen some folks use an empty soda bottle to press down over the grub lump and draw it out...is there a better way?

Dr. Riegel comments:

The best way to have grubs removed from the backs of cattle or sheep is to let the grub remove itself. When this is done, there is no change of rupturing the larva and setting up tremendous tissue reactions an the area of the grub.

If it is imperative that the grub be removed, you should make sure it's (ready) to be removed. If you attempt to get the grub out too early, the chances of causing problems are greater.

Removing the grub itself can be accomplished by squeezing it out by hand or by some other mechanical means, none of which I can proclaim as the best method.

Once the grub is removed, it should be crushed to stop the life cycle right then and

Cattle grubs, the offspring of heel flies, cause millions of dollars in lost profit each year. The heel fly, also known as warble fly or cattle warbles, have an elaborate life cycle which begins with the fly laying its eggs on the lower legs of cattle or sheep.

After the egg hatches, the

To Ripen Fruits

Don't leave fresh fruit in direct sunlight Let fruits ripen in indirect light in the open air at room temperatures When fully ripe, refrigerate and use as soon as possible



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USDA extends comment time

WASHINGTON, D.C. -The time to comment on nine grain standards' studies proposed by the U.S. Department of Agrıculture's Federal Grain Inspection Service has been extended to March 17. The proposal appeared in the December fighting back which 28, 1979, Federal Register. decreases in

the weight losses. Care must Leland E. Bartlet, FGIS be exercised when using administrator, said public advice is needed to identify only because of the toxic and set priorities among nature of the chemicals, but such suggested standards' also because of the studies as field testing alpha amylase content of wheat, uniform requirements for the special grade called "weevily," certifying dockage in tenths of a percent, special grade for organic acid-treated grain, simplified format for the U.S. standards for beans, objecting testing procedures for hay, the need for buckwheat standards, the need for sunflower standards, and the need for rapeseed

standards.

Written comments should be sent to Comments Section, FGIS, USDA, Room 2405 Auditors Bldg., 1400 Independent Ave.,

Washington, D.C. 20250. All comments will be available for public inspection.

Copies of the proposal are available from the same address, phone 202/447-8262.



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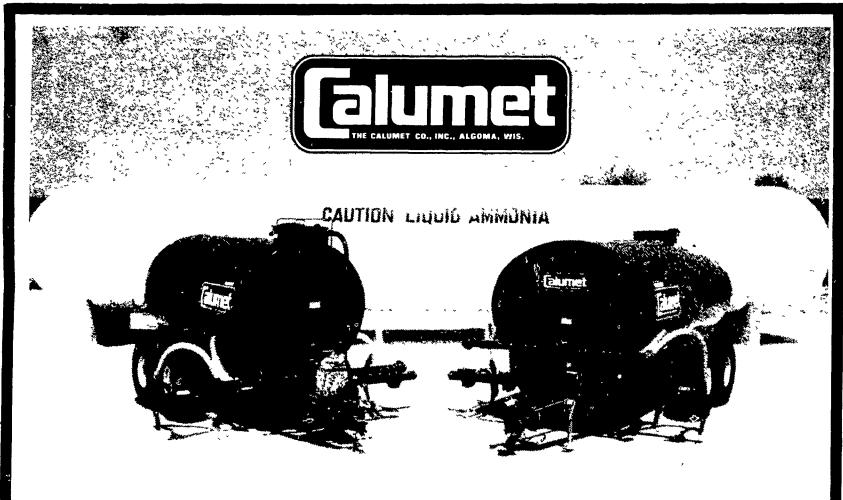
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