

Nothing goes to waste in meat processing

WASHINGTON, D.C. — There's more to a steer than steak. Actually, an average 1,000-pound market steer yields only about 440 pounds of beef. Most of what's left—around 40 percent of the animal's live weight—becomes byproducts. Although beef makes up about 5 percent of the total U.S. diet,

margin. Byproducts benefit both cattle producers and consumers by helping increase the value of fed cattle without further increasing retail beef prices. In dollar value, hides account for about half of all byproduct sales. Last year's average of \$44.50 per 100 pounds of hide was about \$27

1979/80—could be a future trend unless the industry replaces hide exports with leather exports. Some leather industry officials believe that leather—simply hides that have been tanned—would have a wider market appeal and offer greater price stability for wholesalers. Over the past few years, leather exports have been reaching new records. In 1980, the industry had export sales of \$310 million.

and researchers have developed it as a feed additive for livestock—a less expensive alternative to meat and grain as a protein source. Tallow and greases are probably second to hides in terms

Today, edible tallow's major domestic use is as an additive in livestock and pet foods, again because it is a cheaper source of protein than meat itself. And it sells. The pet food industry is huge,

Dividend products come from parts of the slaughtered animal called the "fifth quarter" in the cattle industry.

Americans really eat even more—disguised in chewing gum, marshmallows, some margarines, and gelatin capsules. And many more items are manufactured from cattle byproducts—sporting equipment, bone china, cosmetics, and photographic film are just a few.

All these "dividend" products come from parts of the slaughtered animal called the "fifth quarter" in the cattle industry.

In reality, of course, the carcass of a 1,000-pound market steer is divided into only four quarters—two front and two hind—which weigh about 600 pounds and include the fat and bone that will be trimmed at the retail counter. But almost all of the remaining 400 pounds—the "fifth quarter"—become byproducts which have a potential market value.

According to USDA economist Larry Duewer, byproducts make a significant contribution—just over 10 percent—to the packer's profit

per animal (a normal hide weighs around 60 pounds).

However, in recent years, hide prices have been erratic. During spring 1979, native heavy steer hides reached a record \$90 per cwt., although 1979's average was only \$73—still a hefty 64 percent above the 1980 price.

And volatile prices may reflect the primary hide market—export. Between 60 and 70 percent of U.S. hides from commercial slaughter

are bound for world trade, and almost all of those (90 percent) go to Japan. Of course, any change in Japanese demand or in U.S. supply can drastically affect hide prices. And some analysts suggest that dramatic price swings—as in

synthetics have practically wiped out this market. However, one long-time use of animal hair is the manufacture of artist's paint brushes. This market is limited, though, because only the fine hair from the animal's ear can be used. Hair does contain a lot of protein,

At one time, upholstery stuffed with animal hair was popular, but

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A relatively new and sophisticated byproduct market is the manufacture of pharmaceuticals.

of cash value for byproducts. And the slaughter process provides a lot—an average 60 pounds per animal—of both the edible and inedible varieties.

In 1975/76 alone, 2,580 metric tons were produced. This is much more than domestic use (about 1,500 metric tons during that same period) because demand for these items has really been slipping over the last two decades.

As far as eating tallow outright, the average American consumer is no longer interested. Lard, a pork byproduct, had been widely used in cooking before the sixties, but margarine and shortening have essentially replaced lard in the kitchen.

with domestic sales reaching over \$2 billion in 1980.

Some inedible tallow is still used industrially, mostly for lubricants, although its bigger market—soap—has virtually dried up with the introduction of synthetics. From 1947 to 1964, tallow-based soap production declined some 2 billion pounds.

But concern over environmental pollution, particularly from detergents, has rekindled interest in natural-based soaps. And scientists working with USDA's Science and Education Administration have been successful in creating (but not yet marketing) completely biodegradable soaps

(Turn to Page D15)

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(Continued from Page D13)

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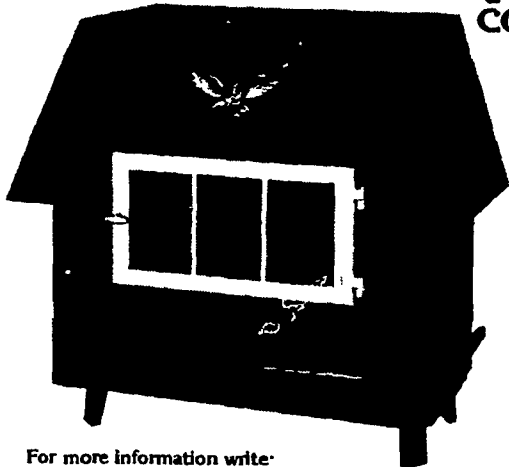
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