

TOY CLEARANCE



NOW THRU 12/24

50% OFF LIST ON SELECT TOYS!



SMURF® CLIP-ON FIGURINES

• Over 3" Tall
53 15248/15256

1⁹⁹



DON'T BREAK THE ICE

• Teaches Balance Skill
53 17169

2⁷⁹

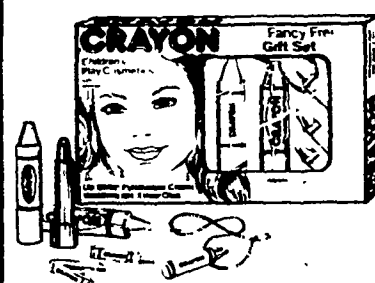


ROUGH RIDERS

• Cars, Rigs, Jeeps, &
Pickups
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YOUR CHOICE

4⁹⁹



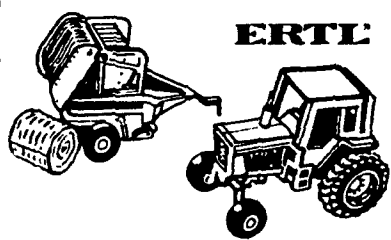
CHILDREN'S COSMETICS

• Safe Non-toxic for that
"Big Girl Look"
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YOUR CHOICE

1⁶⁹

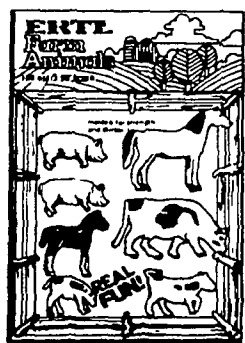
20% OFF LIST ON ALL ERTL® TOYS!



IH TRACTOR SET

• Includes Tractor, Plow,
Wagon, & Baler with
Plastic Bale
52-01871

4⁹⁹



FARM ANIMALS

• Collection of Cow and
Two Calves, Horse and
Colt, Two Pigs
52-02982

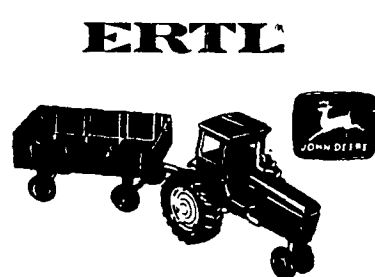
99¢



IMPLEMENT ASSORTMENT

• Die Cast Farm Wagon,
6-Bottom Plow, and
Baler
52 03085

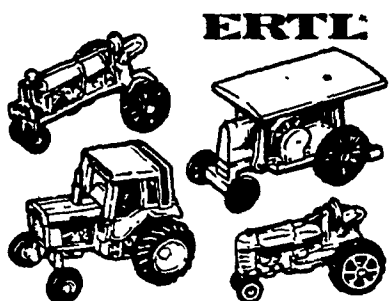
1¹⁹



MINI TRACTOR ASSORTMENT

• 1/64 Authentic Replicas
for Collecting. Die-cast
with Exacting Details
52-03548

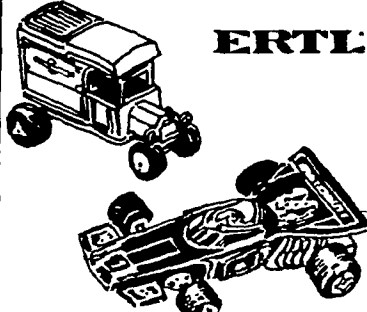
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INTERNATIONAL HARVESTER HISTORICAL 6-PIECE SET

• 6 Die Cast Metal Trac-
tors 52 15113

9⁹⁹



COLLECTOR'S CAR GROUP

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Choose From. All
Authentic Details
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89¢ Each



GENERAL LEE™ CAR

• The Famous Dodge
Charges
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99¢



TINY MIGHTY MOVERS™

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Crawler, or Loader.
True-to-Life Detail
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3⁴⁹
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YORK, 2400 West Market St., 717-792-0014

MARYLAND, WESTMINSTER, 119 Railroad Avenue, 27 East Manchester
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Lancaster Farming,
Saturday, December 18,
1982-A31

Cut water heating, milk cooling costs

UNIVERSITY PARK — Milk can be used to save energy and money for a dairy farmer. Agricultural engineers have studied ways for farmers to use heat exchangers to draw heat from milk and heat water in milkhouses and parlors.

"the idea is not new," says James W. Garthe, Penn State Extension agricultural engineer. The concept of a heat exchanger system was researched in the mid-'60s, when electricity was a relatively cheap commodity.

"But interest has changed or developed with increased cost of energy," he says, "and heat exchangers have only been in commercial competition the last few years."

Garthe says the heat exchanger is part of the refrigeration system used to cool milk. Rather than using a fan to blow excess heat outside, these devices use that heat to warm water. Many types and models are available, with some more efficient than others.

Most dairy operations, says Garthe, use between two to three gallons of hot water per cow per day. Farmers can cut water heating cost in half by installing a heat exchanger.

Approximately one kilowatt hour heats four gallons of tap water to 140 F. A 100-cow herd uses about 200 gallons a day and pays the electric company over \$2.50 a day, or over \$900 a year. Half of that amount or about \$450 is a welcome savings, thanks to these heat exchangers.

"The payback on these units is about three to four years, if properly sized to your herd's milk output and hot water needs," Garthe says.

Depending on the set-up, some systems can heat water in a range of temperatures — tepid enough for washing udders or hot enough for sanitizing.

To aid the dairy farmer, Penn State has developed a computer program to select the right type of exchanger for heating water. A brief worksheet will be sent to interested farmers. This service is free to all Pennsylvania dairy farmers.

For more information, write or call: Steve Spencer, Dairy Science Extension, 213 Borland Lab., University Park, PA 16802, telephone 814/865-5491.