

Effects Of Dairy Manure Application To Alfalfa Studied

As a dairy herd size increases, dairy manure production also increases. Dairy manure can be utilized as a valuable plant fertilizer as well as a source of organic matter if properly used within a dairy farm operation.

The objective of a recent study was to determine the effects of dairy manure application rates to an established stand of alfalfa on herbage yield, forage, soil nitrate nitrogen, and phosphorus in the Upper Peninsula of Michigan.

In real farm situations, since there is a limit to manure storage during the winter period, it's necessary to apply manure before entering the winter. Manure pits also need to be emptied in the early spring to store manure during the season.

Liquid manure having about 60 percent dry matter content was surface-applied using a liquid manure spreader to the alfalfa field at the

rates of 0, 6,000, 12,000, and 18,000 gallons per acre per year, equally split in late spring before green-up and early winter. Alfalfa was cut three times per year and samples were taken to measure dry matter content and nutritive values. Soil samples were taken in the fall after the last cutting.

Although herbage yield showed increasing trends as manure application rates increased, herbage yield in the end was not affected by manure application rates. This indicates that applying liquid dairy manure to alfalfa up to 18,000 gal./acre/yr. equally split was not detrimental to maintaining herbage yield of alfalfa.

In general, dairy manure application to alfalfa did not make a significant difference in crude protein, acid detergent fiber and neutral detergent fiber over the control treatment. Crude protein con-

tent increased by applying dairy manure as compared to the control treatment at the first cut. Forage quality, however, was decreased in subsequent cuttings.

There was no significant difference in soil nitrate nitrogen within manure treatments, indicating that split applications of dairy manure up to 18,000 gal./acre/yr. did not increase soil nitrate nitrogen in 2001. Like soil nitrate nitrogen, soil phosphorus was not af-

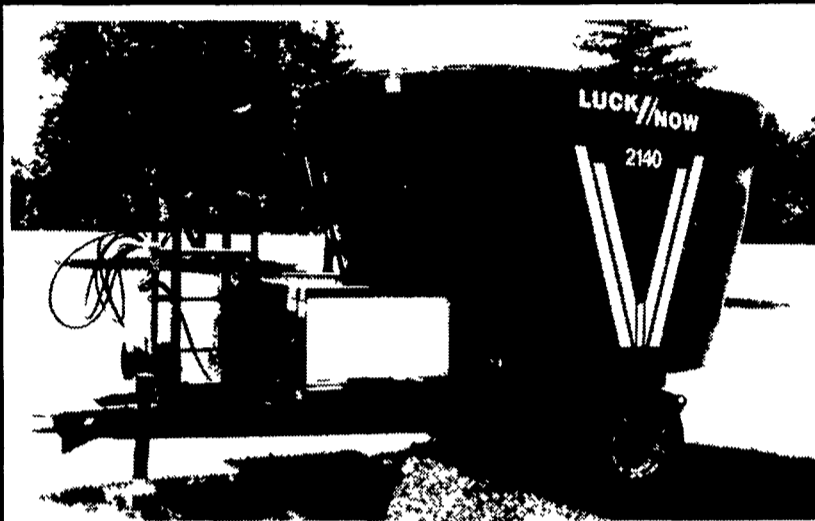
ected by manure application rates.

Based on one year's data, applying liquid dairy manure up to 18,000 gal./acre/yr. did not show detrimental effects on herbage yield, forage quality and soil nitrate nitrogen, and phosphorus.

This study was conducted by Doo-Hong Min and Rich Leep of Michigan State University, and Lester Vough from the University of Maryland. (From American Forage and Grassland Council.)



LUCK//NOW Vertical Mixer Feeder



Already known for durability, performance & quality in the business of Four-Auger Mixer Feeders, Helm Welding (1983) Ltd. has branched into the Vertical Mixer Feeder market. This company is equally committed to growth and quality, and feels that the LUCK//NOW is the strongest mixer, of this style, available today...

It's a different style with the same strength. **LUCK//NOW**

Make Your Best Deal Now On A Luck/Now Mixer-Feeder and the Advantage of the **E-Z FLEX FINANCING** (at Participating Dealers) **LOW-RATE FINANCING**

GET DETAILS ON THE ENTIRE RANGE OF LUCK//NOW MIXER FEEDERS

BELLEVILLE, PA
BIG VALLEY REPAIR
111 GREEN ST

GREENCASTLE, PA
MEYERS IMPLEMENT
400 N ANTRIM WAY

MIFFLINBURG, PA
HESS EQUIPMENT
SALES & SERVICE
RR3, BOX 160

CLIFFORD, PA
NORTHEAST
DISTRIBUTORS &
EQUIPMENT
ROUTE 106, WEST
CLIFFORD, OFF 181

LEOLA, PA
M.M. WEAVER & SONS
169 NORTH GROFFDALE RD

LOYSVILLE, PA
McMILLEN BROS.
RD#1 - BOX 134

MASSEY, MD
JONES DAIRY SERVICE
12667 MASSEY ROAD

GLEN ROCK, PA
WERTZ FARM &
POWER EQUIPMENT
RD#3, Box 458
PA ROUTE 516

MARTINSBURG, PA
WINELAND
EQUIPMENT, INC.
RD#2, ROUTE 164 EAST

WATSONTOWN, PA
ROVENDALE AG & BARN
I-80 TO I-81 /
WATSONTOWN EXIT



Distributed By:
CUMMINGS and BRICKER, Inc.
WHOLESALE DISTRIBUTORS

100 Stover Drive
Carlisle, PA 17013
717/249-6720

100-120 Lehigh Ave. - PO Box 928
Batavia, New York 14021-0928
716/343-5411

Serving Farmers Through Farm Equipment Dealers Since 1961

**BUY,
SELL,
TRADE
OR
RENT
THROUGH
THE
CLASSIFIED
ADS
IN
Lancaster
Farming**

**PHONE:
717-626-1164
OR
717-394-3047**

**FAX:
717-733-6058**

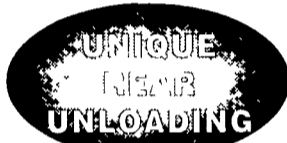


**Mon., Tues.,
Wed., Fri.
8 AM to 5 PM
Thurs.
7 AM to 5 PM**



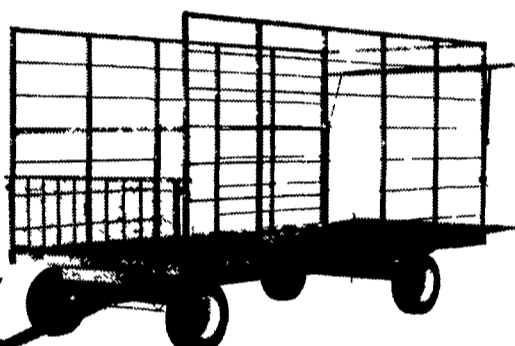
WELL BUILT HAY RACKS

Designed & Proven By Farmers

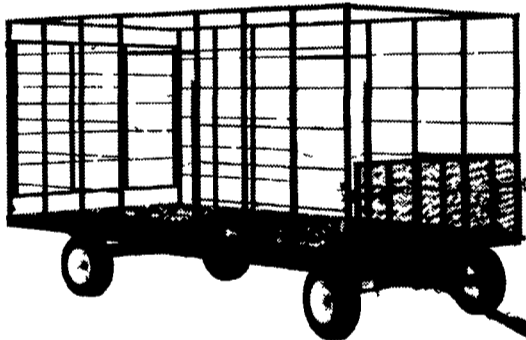


Dutch Brothers Wagon

- Needs only 38" clearance
- 8'x18' inside
- End Gates are extra heavy expanded metal, with spring loaded latches



- Quick release latches on back and sides
- Back gate swings 270°



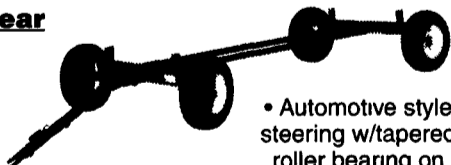
Standard Features On Both Wagons

- Heavy duty oak bed
 - Choice of green or red
 - Floor is screw nailed
 - Formed steel rub-rails
 - Mfg. with 1" & 2" 14 gauge tubing
 - Removable Racks
- Optional - Deluxe Bed with steel frame and 2"x8" pressure treated flooring.*

For Wagons,
Call Honey Brook 610/273-3603

Heavy Duty Running Gear

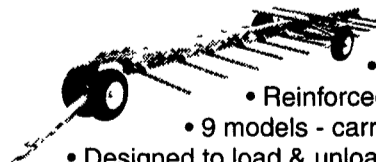
- Tight turning radius
- Double reach construction (3X stronger than single)
- Adjustable self-latching tongue
- 6 Bolt hub
- 13' wheel base on standard reach
- Automotive style steering w/tapered roller bearing on center pivot



Available 8 & 10 Ton Single Axle; 12 Ton Tandem Axle

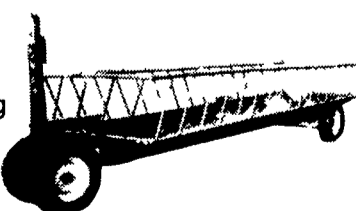
Round Bale Carriers

- Heavy duty construction
- Reinforced cross members.
- 9 models - carry 6, 8 or 10 bales
- Designed to load & unload with a 3 pt. hitch bale spear.



Feeders

- Available in a variety of lengths.
- Slant bars or adjustable self-locking headlocks



540 White School Rd
Honey Brook, PA 19344
610/273-3603
Leave Message If No Answer



156 Pompey Hill Rd
Stoystown, PA 15563
814/893-5086

Call or Write for Free Brochure • Dealer Inquiries Invited