

Put animal wastes to work

NEWARK, Del. — The farmer of bygone days knew the value of animal waste. But as inexpensive commercial fertilizers came on the market, manure became less attractive as a fertilizer because of handling problems and odor.

With the rising cost of commercial fertilizers, animal waste is again being considered as a nutrient source for crops. "Farmers aren't talking about waste disposal these days. Now the team is 'animal waste utilization,'" says University of Delaware Extension specialist in environmental quality, Ross Harris.

"Animal wastes are still one of the best slow release fertilizers known to man," he says. But using them effectively calls for special know-how.

"First of all, you need to know their nutrient content. Applying manure to the land without first knowing this is like buying and applying Brand-X fertilizer," says Harris. "It's likely to be no bargain at all."

Nutrient values of animal waste can vary greatly, depending on time of year, feed ration, storage methods, age of material, and method of application. To use

manures efficiently you need to know their specific nutrient content. Don't just rely on a chart that gives approximate values, have an analysis done, he advises. There are a number of laboratories which can do this for you.

Finding out the exact nutrient content of manure is just the first step. You've also got to put down the right amount. Rates of application vary greatly among spreaders. So find out how much yours applies. Too much manure may cause plants to lodge. And excess nutrients may run off into streams or leach into the groundwater.

To determine the rate of ap-

plication for your spreader, follow this procedure:

Calculate the spreader's capacity in cubic feet;

Weigh a given volume of manure to find out its weight per cubic foot;

Multiply the spreader's capacity by the weight of a cubic foot of manure;

Convert the total weight to tons by dividing by 2000;

Measure off a plot of land 209x209 feet. (This will give you an area roughly equal to an acre);

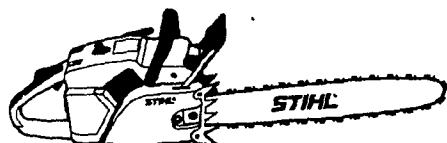
Drive the spreader through the plot, applying manure to the entire area;

Count the number of loads that go on;

Multiply the total number of loads by the tons of manure in a single load. This will tell you roughly how many tons per acre you applied.

Making these calculations will help you make better use of livestock waste in crop production. The improved efficiency should result in reduced overhead costs and increased profits for you.

"Improper use of animal manure is a waste of valuable nutrients," says Harris. "This is dollars lost." Improper use can also have an adverse effect on surface and groundwater quality.



IT'S ALL MUSCLE.

Introducing the ultimate in mid size pro saws The Stihl® 056AVE. Its 81cc engine can rip through the heaviest timber without showing the least bit of fatigue. And the anti vibration system on the 056AVE keeps operator fatigue down, too. Test cut the new 056AVE. We think you'll find a lot of strong reasons to put it to work.

STIHL
The World's Largest Selling Chain Saw

FREE DEMONSTRATION
Chain Saw - Concrete & Metal Saw Rentals

STOLTZFUS WOODWORK

RD Gap, PA Box 183
1 Mile North Rt. 897 From Gap

A & B SALES & SERVICE

2 Miles South of Rt. 23 Along 772
Thru Monterey - RD 1 Ronks, PA

MARTIN HARDWARE & EQUIPMENT CO.

Rt. 501 1 1/2 Miles South of Schaefferstown, PA
Phone 717-949-6817

WES STAUFFER SALES & SERVICE

RD 3 Ephrata, PA
Phone (717) 738-4215
Ephrata Exit New Rt. 222,
1/2 Mile West on Rt. 322
Turn left onto Pleasant Valley Rd

MAKING SILAGE

It's just a couple weeks away!!

MAKE PLANS

To use "Cold Flo" ammonia to increase your protein

- Easy to apply
- Cost efficient - \$1.90/ton of silage
- Consistent Response - 10# of ammonia increases protein 4%
- Increase digestibility

Call one of our sales people now for the full story on ammonia on silage.

See Us For Fall Needs Of:

- Fertilizer
- Limestone
- Alfalfa Herbicide Spraying
- Soil Tests

BULK BLENDS
MASTER FARMER
ANHYDROUS AMMONIA

ORGANIC PLANT FOOD CO.

2313 Norman Rd., Lancaster, PA 17601
PHONE: 717-397-5152

Hours: Monday thru Friday 7 to 4
Starting Sat. Sept. 12th -
Hrs. from 7:30 to 12:00

SOLLENBERGER

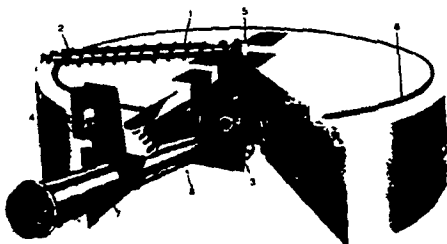


Silo & Equipment

5790 Sunset Pike
Chambersburg, PA 17201
717-264-9588

Oxygen Controlled Structure
Laidig Bottom Unloader
for Haylage - Corn Silage
High Moisture Corn

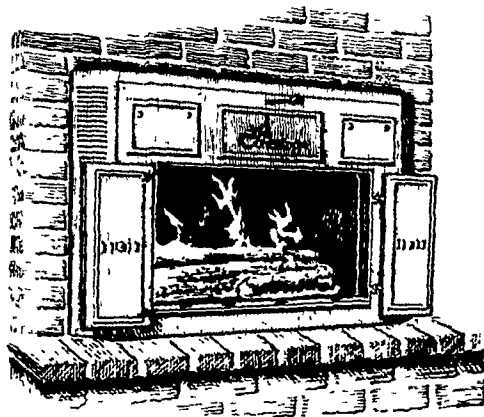
The Laidig automatically unloads all types of silage



The Laidig unloads whole plant silage of grasses, legumes and mixtures as well as shelled corn, ground ear corn and other whole or ground grains from oxygen controlled structures

The heavy-duty sweep arm pivots from the center of the silo and is driven by a positive sprocket wheel drive. It conveys silage rapidly to a hopper at the center of the silo where it falls into the exit auger and is carried outside. Unloader operates independent of the silo wall. Forage is under-cut smoothly and efficiently allowing the silage to exit evenly

The Conestoga Fireplace Insert



Put a big dent in fuel bills!

SPECIAL PRICE **\$499** With this ad, while they last.

Bowman's Stove Shop, Inc.

R.D. 3, Napierville Road Ephrata, PA 17522
Tues., Wed., Sat. 9-5
Thurs., Fri. 9-9
Closed Mondays
Follow the signs from the light at Hinkletown

717-733-4973
Financing Available



KEYSTONE GUN-KRETE CO.



CONCRETE SPRAYING SERVICE

A PROVEN PRACTICAL WAY OF APPLYING CONCRETE

- Repair Retaining Walls
- Reseal Manure Pits
- Strengthen Existing Masonry Walls
- Reseal Silos
- Trench Silo Construction

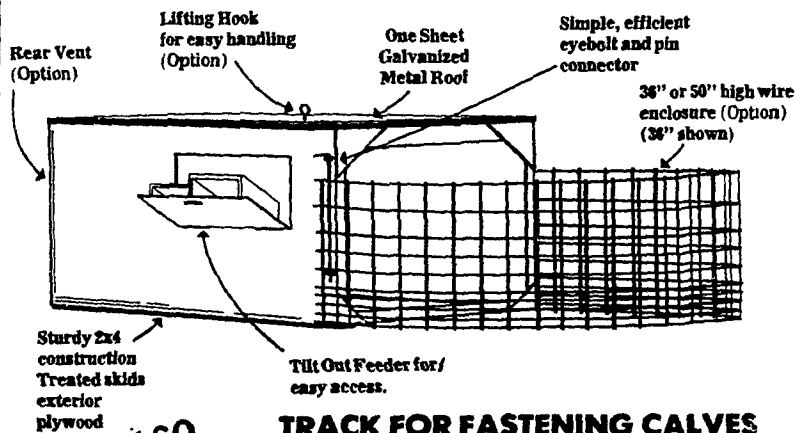
★ Also Concrete Pumping Service
For Information Call:

KEYSTONE GUN-KRETE CO.

43 S. Harvest Road
Bird-In-Hand, PA 17505

717-768-3641

Compare the Stoltzfus Woodwork Calf Hutch



ALSO AVAILABLE: TRACK FOR FASTENING CALVES CHAINED TO CEILING OF HUTCH

Dealers: (Calf Hutches Only)

Adams County:
LIPPY & RINEHART SALES

Glen Lippy, Littlestown, Pa.
717-359-5793 or:
John W. Rinehart, Taneytown, MD
301-346-7326

Berks County:
JOE RUTH

RD #4133 Fleetwood, Pa. 19522
215-944-7571

Lebanon County:
UMBERGER'S MILL

Rt. 322, RD#4 Lebanon, Pa.
717-867-5161

Chester County:
ZOOK'S FARM STORE

Honey Brook, Pa.
215-273-2943

MFD. BY: **STOLTZFUS WOODWORK**

RD 2, Box 2280, Gap, PA 17527
717-442-8972

★ DEALERSHIPS AVAILABLE IN SOME AREAS ★