Land-to-Land Sewage - Way To Meet Fertilizer Shortage?

With a fertilizer shortage threatening farm production next year, it is time to take seriously proposals for using municipal sewage on our farmlands.

Using sewage to increase crop yields has been practiced for centuries in different parts of the world. And today, with our crowded cities facing the need to build more and more expensive sewage disposal facilities, we become more tempted to revert to old time solutions.

Currently, most American farmers depend on commercial fertilizers. But devaluation of the dollar and a real or contrived fuel shortage has cut down on our fertilizer supply.

Sen. Hubert Humphrey (D-Minn.) talked about the heavy exports of fertilizers recently. He remarked that devaluation of the dollar has made American products a good buy for foreign countries. The problem, he said, is that fertilizer has been leaving the country at too fast a rate and, as a result, he predicted a shortage of 20 million tons of grains in next year's crops.

Commercial fertilizer production also suffered from

this year's fuel shortages. These nitrogen compounds require heat for production.

The dwindling supply, of course, has meant increasing prices for fertilizer. So farmers are caught in the double evil of short supply and high production expenses.

One of the benefits of "sewage farming" is that more low cost fertilizer is available. In Pennsylvania, there have been reports of a number of farmers who have taken the intitiative and contracted with municipalities to haul sludge to their fields.

Another benefit proven on Pennsylvnaia State University test plots is that fields irrigated with sewage effluent produced yields up to twice as great as the conventional plot dependent on rainfall for moisture.

A third benefit accrues to the city dweller whose taxes constantly rise to support sophisticated multi-billion dollar sewage disposal plants.

Wisconsin state Sen. Douglas LaFollette, recently presented the case of land-to-land sewage very well.

"As a conservationist and a state senator," he said, "I want to suggest a new method of sewage treatment which curbs pollution and gives the farmer an important role in solving this problem of America's urban society.

"I am suggesting land-to-land sewage -- a method of sewage

• PLASTIC SILAGE COVERS

• SILAGE SAVOR

• FLAMELESS GAS BROODERS

• DAIRY & BEEF CATTLE WORMER

CUSTOM CANVASS WORK

--- Special Prices on - - -

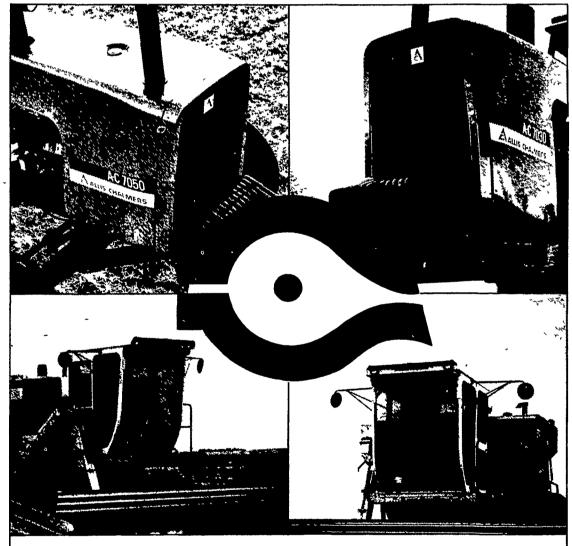
• Penstrep and Combiotic Injectables

• Furox Suspension

AARON S. GROFF & SON

Farm & Dairy Store R.D. 3, Ephrata, Pa 17542 (Hinkletown) Store Hours 7 A.M. to 9 P.M

A, Pa 17542 (Hinkletown) Phone 354-0744 Store Hours 7 A.M. to 9 P.M. Closed Tues. & Sat. at 5:30 P.M.



See the "Eye Openers"

from Allis-Chalmers

Stop in and compare the new 130 horsepower 7030 tractor, 155 horsepower 7050 tractor, *Gleaner* Model L combine and *Gleaner* Model M combine.

Nissley Farm Service
Washington Boro. Pa

Grumelli Farm Service

Quarryville. Pa

L. H. Brubaker

Roy H. Buch, Inc.
Ephrata, R D 2

ALLIS-CHALMERS

BHM Farm Equipment, Inc.

Annville, R.D. 1, Pa.

We're gonna open your eyes!

LaFollette explained that under the land-to-land process, "the sewage from a community after initial treatment is gathered in large settling lagoons from where it is pumped to fertilize and to irrigate cultivated

treatment which eliminates most

pollution due to sewage, incre-

ases crop yields, and is more

economical for us all in the long

fields."

Resistance to this type of fertilization is based on fears of damaging ground water supplies in nearby areas.

However, LaFollette notes that widespread use of this method in Europe since the 19th century and on the deserts of Israel has shown that certain soils function as natural water purifiers.

He claims that in most areas adequate acreage of suitable land is available to handle liquid sewage. In proper soil, he says, a chemical reaction reduces the contaminates by 68 to 82 percent within the first 12 inches of penetration by the liquid sewage. And by the time the liquid reaches the water table, it is totally purified.

One of the things to be careful about with this method is the

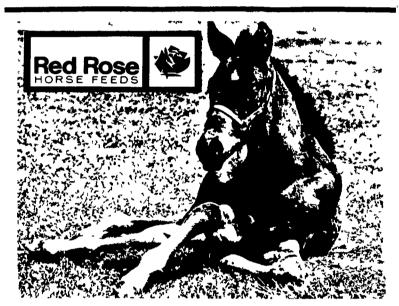
contamination of land by heavy metals or chemical poisons from industry. But this can be solved by forbidding the dumping of industrial wastes into the sewer systems of cities.

Projections of costs by planners indicates that construction of land-to-land sewage plants is considerably cheaper than expanding the chemical methods now being employed. It has been estimated that the annual percapita expense needed for land-to-land sewage to take care of the needs of a city the size of Chicago is \$47.10 compared to \$74.80 for physical-chemical treatment.

Considering the economies this system will provide to both farmers and city dwellers, it would seem land-to-land_sewage treatment merits prime attention.

Bly's Trip

Nellie Bly, a newspaper reporter, undertook, in 1889, a trip around the world for her newspaper to prove the feasibility of the adventure recorded in Jules Verne's novel, "Around the World in 80 Days," and made the trip in 72 days, 6 hours and 11 minutes.



Foals and weanlings will eat almost anything you feed them The question is what's best? Now, after two years of intensive research and field testing, Red Rose has the answer New Red Rose Foal Foal is formulated specifically to meet the critical growth requirements of foals and weanlings. It encourages early, rapid growth of bone and muscle without unnecessary fattening. Stimulates early maturity and helps correct deficiencies. Foal contains the highest quality protein, calcium, phosphorus and vitamins A, D and E. No supplements needed. Later, move your filly or colt up to Red Rose Super, the complete nutritious ration for yearlings and full grown animals. Choose from the full line of fresh Red Rose horse feeds. Super, Classic, Regular, Foal, Complete Horse Pellets, Equinader, Free Choice Mineral.



JOHN w Chelman & SONS
Est 1842 Mills Lancaster, Pa / York, Pa / Circleville O /
Tampa, Fla / Sanford, N C / Chamblee, Ga

WALTER BINKLEY & SON

Lititz

BROWN & REA, INC.

Atglen

G. R. MITCHELL, INC.

MARTIN'S FEED MILL

Ephrata, Pa.

Refton, Pa

ELVERSON SUPPLY CO.

MOUNTVILLE FEED SERVICE Mountville

MUSSER FARMS, INC.

RED ROSE FARM

SERVICE, INC.

N Church St , Quarryville

HENRY E. GARBER

Elizabethtown, Pa

E. MUSSER HEISEY & SON

R D 2, Mt Joy, Pa

HEISTAND BROS.
Elizabethtown

DAVID B. HURST Bowmansville

CHAS. E. SAUDER

& SONS
Terre Hill

H. M. STAUFFER & SONS, INC.

Witmer