

2,000 years of age! Not only that but the concentrations of mercury were often above the permissible level as designated by the Food and Drug Administration.

For the Complete Organic Program

Scientists at the Pittsburgh Energy Research Center of the U. S. Bureau of Mines have devised a means of converting animal manure to fuel by heating it under pressure with carbon monoxide to produce oil. Three barrels of oil can be produced from a ton of dry manure.

One researcher noted, "if all animal wastes could be collected and converted to oil, it would satisfy about half of this country's oil needs, or about 2.45 billions barrels of oil annually. In effect, it's a way to harness the sun's energy in an economical manner."

Another scheme for using animal wastes has been developed in Devonshire, England, where automotive fuel has been processed from chicken and pig manure, although any organic waste will suffice.

The fresh manure is composted briefly and placed in a digester where methane gas is generated by bacterial action. To complete the process, a simple gas converter has been devised by Harold Bate, Devonshire, which will feed methane into the carburetor of a car. Total installation cost of the converter is less than \$100.

Besides solving the animal waste disposal problem, the manure-powered car contributes to cleaner air; methane gas affords nearly complete combustion — about 97% — while gas only gives about 27% combustion with the remaining unburned fuel being emitted in the car's exhaust.

In addition, the manure-powered vehicle is efficient and inexpensive to run. Bate estimates the equivalent of one gallon of premium gasoline costs 3¢ and causes very little wear on the car.

DACONIL 2787

from

illinois lawn equipment inc.

The place to go
when stock is low . . .

BURDETT'S

Turf, Agriculture, Recreation Supplies and Chemicals

Swift Road at North Avenue
P. O. Box 186
Lombard, Illinois 60148
(312) 629-1123

CLEARY PRODUCTS FOR BETTER TURF

PMAS — Disease and Crabgrass Control

CADDY — Liquid Cadmium Chloride Fungicide

SPOTRETE — 75% Thiram Fungicide

THIMER — Broad Spectrum (Phenyl Mercury-Thiram) Fungicide

METHAR — DSMA and AMA Crabgrass Killers (Liquids and Powders)

MCPP — Control Chickweeds, Knotweeds, Clover, etc. in Bents, Bluegrasses, etc.

MCPP+2-4D

ALL WET — 100% Non-Ionic Wetting Agent

TRU-GREEN — Liquid Chelating Agent Contains Iron, Magnesium, etc. (Apply with Fungicides)

CLEAR SPRAY — Liquid Protective Sticker for Grass and Plantings. Extends the Life of Fungicides Summer and winter.

W. A. CLEARY CORPORATION

NEW BRUNSWICK, N. J. 08403

Safe DDT Substitutes Developed

URBANA, Ill. April 9 (AP) — University of Illinois researchers have developed DDT-type pesticides which apparently have the ability of DDT to kill insects without the undesirable side effects.

Dr. Robert L. Metcalf, head of the five-year research effort, will be honored at the American Chemical Society's annual meeting in Boston this week for the discovery. He has been named to receive the International Award for Research in Pesticide Chemistry.

Commercial Potential

About 100 DDT analogs—or relatives—have been developed, of which 10 or 12 "have solid commercial potential," Metcalf said in an interview with the Associated Press.

Even though development of these new pesticides was completed last year, Metcalf said, no manufacturer has yet obtained a production license from the University of Illinois Foundation, which holds the patent rights.

Japanese firms have expressed more interest in them than American firms have, he said.

The DDT-type pesticides can be produced in existing facilities for manufacturing DDT, some of which are idle — or about to be — because of government restrictions on the use of this pesticide.

Killer of Wildlife

DDT is a persistent man-made chemical which is passed in the food chain and stored in animal fat.

Although the effects of DDT on the human body are not known, it has killed many wildlife species — especially fish and birds — and has caused birds to lay eggs with shells too weak to hatch.

Some mammals, including rats, mice, hamsters, dogs and monkeys, have been shown to develop cancer, birth defects and genetic mutations in laboratory studies with DDT.

AQUA-GRO QUALITY BLENDED WETTING AGENT

AQUA-T LOW COST BLENDED WETTING AGENT

STOMA-SEAL CHEMICAL CONTROL OF WILT

AQUA-GRO GRANULAR

CONVENIENCE OF APPLICATION