

Less Pollution Seen in 100 years As Pollutants Are Made Beneficial

Contrary to pessimistic predictions of the future, this country will be less polluted in 100 years than it is today because we will have learned to turn potential pollutants to beneficial use, a U.S. Department of Agriculture soil scientist reported to fellow members of the Agricultural Research Institute meeting recently in Arlington, Va.

U.S. Soils Laboratory of USDA's Agricultural Research Service at Beltsville, Md., said that, with a few exceptions, potential agricultural pollutants may also be sources of fertilizers. Whether they are considered pollutants is generally a matter of where they are and to what degree they affect plants, animals or humans.

Historically, Dr. Kemper said, soil has been considered the normal disposal medium for man's refuse. Natural processes in soils eventually decompose organic materials to carbon dioxide and water, and other components which form much of the basic fertility of soils.

The most apparent portions of our environment are our air and water, Dr. Kemper said. Pollutants are frequently "washed" from the air by rain or snow

to ordinary crops. In several instances, plants are available which will tolerate higher levels of these pollutants without a reduction in crop quality.

Materials added to the soil become pollutants only when (1) they are present in amounts so large that they interfere with the normal function of the soil to grow plants, or (2) they adversely affect the quality of plants grown for animal or human consumption, he added.

Sewage emptied into a river is a pollutant. But applied to land in the right amount it is filtered, purified and converted into clean water for recharging underground water supplies. At the same time, properly treated sewage waters can be used for nonfood crop irrigation — on pasture and hay crops, the speaker pointed out.

Chemical treatments that limit the solubility of heavy metallic elements show promise for keeping these elements below their toxic concentration ranges.

Another possibility for reducing the harmful effects of pollutants is the tailoring of plants to thrive on soils that are toxic

to ordinary crops. In several instances, plants are available which will tolerate higher levels of these pollutants without a reduction in crop quality.

"It is time we provided plant breeders with the support and technical assistance they need to develop new plants which can be used to improve the quality of our environment and reduce the cost of that improvement," Dr. Kemper concluded.

The Agricultural Research Institute, an affiliate of the National Academy of Sciences, holding its 19th annual meeting Oct. 13 and 14, had as its theme the cost of that improvement, "Agriculture's Challenge in the Seventies."

"Na-Churs" Liquid Plant Food



Use a balanced plant fertilizer. Build up resistance against disease. Enjoy less fertilizer cost per bushel of corn.

For More Information
Call 717-653-5238 or
717-872-7342

We are now hiring men.



9 good reasons for feeding Purina Farrowing Chow to your sows at farrowing time

1. Formulated especially for your sows' farrowing time needs.
2. Bulky
3. Easy to handle and store.
4. Laxative.
5. Fortified with vitamins, minerals to help sows at farrowing.
6. Sows like it.
7. Available with mf 180 — helps prevent scours in pigs.
8. Economical.
9. Easy to feed complete ration containing grain.

YOU'LL NEVER KNOW what a great ration Purina Farrowing Chow is until you feed it to your own sows! Next time you're in town, drop by our store and let us tell you more about Purina Farrowing Chow.

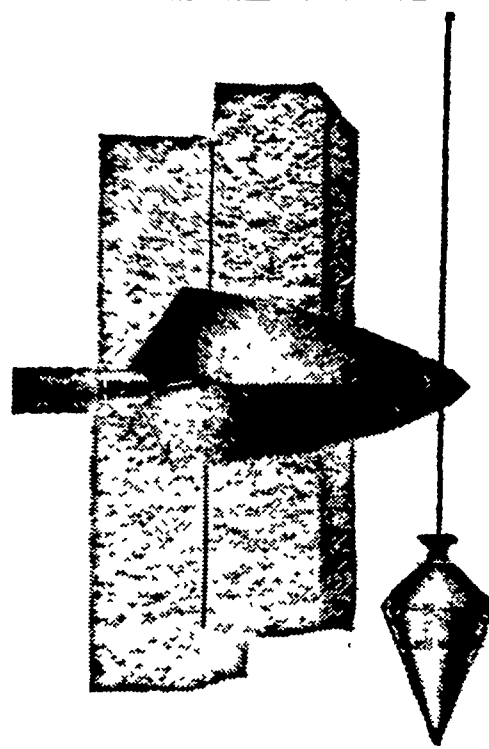
John J. Hess, II, Inc. **James High & Sons**
Ph 442-4632 Ph 354-0301
Paradise Gordonville

Ira. B. Landis
Ph 394-7912
1912 Creek Hill Rd., Lanc

John B. Kurtz
Ph 354-9251
T. D. 3, Ephrata

**West Willow
Farmers Assn., Inc.**
Ph 464-3431
West Willow

**Wenger's Feed Mill
Inc.**
Ph 367-1195
Rheems



HOLLAND STONE

a luxury you can afford

Inside, outside, you'll find the rich quarried look of HOLLAND STONE adds a touch of real elegance to your building designs. And yet, HOLLAND STONE is one of the most economical building materials today. Its unique versatility in size and shape lends a structural freedom to builders, meeting new ideas, as well as cost problems. Comes in a wide choice of naturally warm, distinctive colors, plus Colonial white.

NEW HOLLAND
CONCRETE PRODUCTS, INC.
NEW HOLLAND PENNSYLVANIA

Big Dutchman. GAS-FIRED POULTRY INCINERATOR

Big Dutchman now offers a new 120,000 BTU, 150 lb capacity gas incinerator. The incinerator basket features chimney type construction, which makes the load burn from the center toward the outside shell. This provides maximum burning temperature to minimize smoke effect and kill disease organisms in the chamber and stack. It also lowers the emission of solids to conform with local health laws and has received New York state approval. The incinerator is made of special heat resistant metal to withstand high temperatures generated during the burn-out. The heavy duty cast iron grate includes a heat baffle. The burner is controlled by an automatic 4-hour timer.

Big Dutchman Gas Incinerator
#40 AQ 0000, with after burner
LP or NG, Wt 300 lbs



BIG DUTCHMAN

A Division of U.S. Industries, Inc.
EASTERN BRANCH

215 Diller Ave., New Holland, Pa. 17557

Phone 354-5168