

Grim Elected Secretary Of National Citizens' Group

UNIVERSITY PARK — Mary Grim, president of the Pennsylvania Council of Cooperative Extension Associations, was elected secretary of a national voluntary citizens group at the group's national meeting held earlier this month in Phoenix, Arizona.

The organization, called the Council for Agricultural Research, Extension and Teaching (CARET), is dedicated to the continuation and enhancement of agricultural research, extension and teaching programs of the land-grant university system. CARET provides a national forum for support of agricultural programs that are based in land grant universities such as Penn State.

CARET is composed of representatives from each state and Puerto Rico. The delegates are chosen by their respective universities to be representatives of their state's agriculture research and extension programs.

The organization was established in 1982 by the Division of Agriculture of the National Association of State Universities

and Land Grant Colleges. CARET provides an opportunity for people to give visibility to their land grant programs.

For example, at the national level delegates present testimony in support of their land grant programs to congressional committees and executive agencies.

Members also work with other national agricultural organizations.

At the state level delegates provide lay leadership and expertise regarding federal programs, the federal budget process, and national issues af-

fecting agriculture.

Mrs. Grim currently is president of the Pennsylvania Council of Cooperative Extension Associations. That is the state organization that is made of representatives of county Extension Executive Boards. PCCEA

advises Extension Administration on programs and priorities.

She is active in Adams County Extension programs and has been a member of the Adams County Extension Advisory Board. She and her husband Michael are the parents of two children and reside in East Berlin.

'Greenhouse Effect' May Boost Wheat Yields

MANHATTAN, Kans. — The recently publicized "greenhouse effect" may not be all bad, say some scientists at Kansas State University. They've found that increasing amounts of carbon dioxide — a major contributor to the warming of the earth's atmosphere — also is a "windfall" to winter wheat.

After two years of experiments, increased carbon dioxide helped wheat production. Also, plants in the experimental plots did not require additional water but seemed to conserve it as the amount of the carbon dioxide increased.

According to Utsab Chaudhuri,

K-State agronomist, plants in the experiment produced more grain, grew bigger leaves, sent their roots deeper, and used water more efficiently as the amount of gas increased.

The research team grew winter wheat in plexiglas-covered chambers placed over large pots of soil called "rhizotrons." Root growth to a depth of five feet could be observed through a glass plate on one side of the rhizotron.

The chambers were infused with various levels of carbon dioxide throughout the growing season. Hard red winter wheat either received adequate water or was drought stressed.

All yield components, including protein and root weight, increased with an increasing amount of carbon dioxide, regardless of the amount of water involved. Grain yield increased by 60 percent for well watered plants getting the highest carbon dioxide concentrations; the yield increased by 55 percent at the highest gas levels even when the plant received less water, Chaudhuri said.

He explained that an enriched carbon dioxide environment increased yield for drought-stressed plants, and that less water was actually required to produce one gram of grain if gas level was increased.

The researchers presented their findings at the annual meeting of the American Society of Agronomy, Nov. 30-Dec. 5, 1986 in New Orleans.



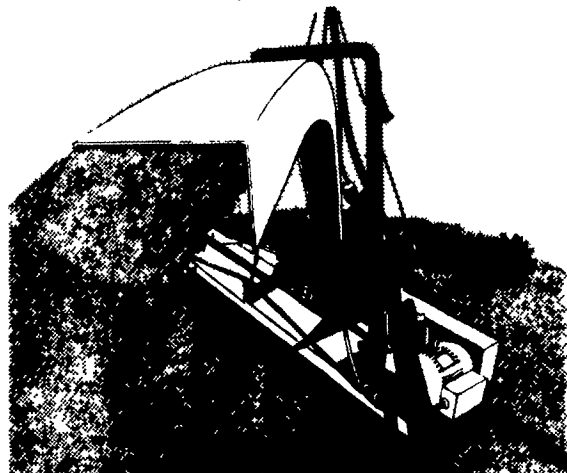
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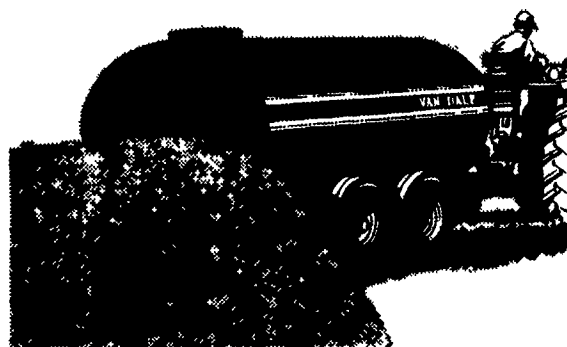
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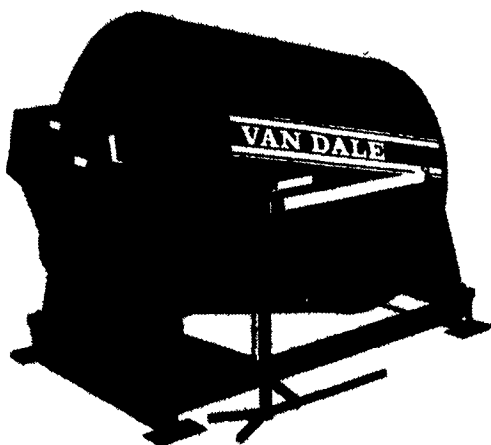
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