Study could help increase plants' productivity

By MICHELLE STARR Staff writer

UNL researchers are studying plants to try to make them more productive, which will reduce the amount of water and fertilizer they need and possibly increase crop yield.

John Markwell, a UNL professor of biochemistry, along with John Osterman, a UNL associate professor of biological sciences, have been studying plants' responses under drought conditions in an effort to make plants more pro-

"In a state like Nebraska, water is the main limitability," Markwell said.

The research, which began about three years

ago, has also shown that when plants accusdrought conditions, they use their energy more efficiently, Markwell said. The increased efficiency could allow more productivity in dryer parts of the state, such as western Nebraska.

"It's almost like a desert out there," Markwell said.

With an increase in productivity, plants will utilize nitrogen more efficiently, resulting in in drought conditions use a process of photoresless fertilizer use, which will reduce the amount of run-off and contamination, Markwell said.

Also, the plants' photosynthesis productivity is increased, which means plants might need less water and thus take less water from Nebraska's aquifer for irrigation, Markwell

The research is also looking at increasing tomed to a high amount of water are under crop yield by genetically engineering crops such as soybeans, Osterman said.

"The majority of crops in Nebraska are going to encounter water limitations at some time. We're trying to help those plants maintain their yields under these conditions," Osterman

The research is also examining why plants piration that takes carbon from the air and converts it to oxygen and sugar made from photosynthesis and then turns it back into carbon, a counteractive process, Osterman said.

photorespiration because it expends too much of the plants' energy.

The plants might conserve energy by reducing photorespiration. The researchers are studying what the genetic causes may be for this conservation of energy.

The research has been partly conducted by examining the amount of chlorophyll in the plants' leaves, which determines how efficienty the plant uses its nitrogen; the more chlorophyll, the more efficient the use.

Researchers used a chlorophyl! meter and an equation calculated by Markwell to determine the amount of chlorophyll in the plant, Markwell said.

The USDA is funding the project, and The researchers are studying how to stop Markwell will be gathering more information to apply for other grants from the USDA and the Department of Energy, Markwell said.

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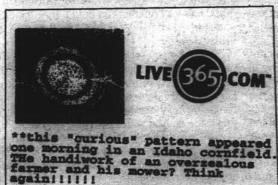
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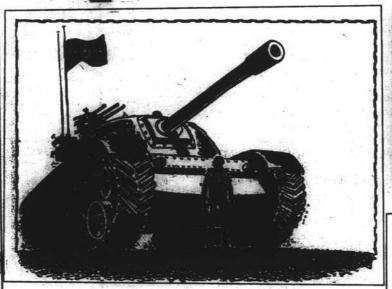


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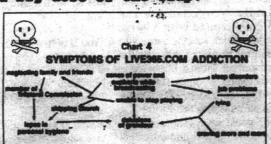




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