Del. Researcher Seeks Drought Resistant Corne Corn is one of Delaware's (figuring an average of 80 Delaware's 1974 corn yield corn states," she explains.

around 15,520,000 bushels disaster downstate,

biggest agricultural crops. bushels an acre). As Some 194,000 acres of corn everyone knows, though, were grown in the state last that's not what Delaware year, much of this in Sussex farmers got last year. Even county. Yields from that size with a bumper crop in New planting should have been Castle county to offset the



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was only 12,416,000 bushels - "A whole different world

it should have been. growers what disease or insects, but of soils in the two regions. moisture stress at critical season.

problem. Some water, but only a few growers have irrigation now, and for one reason or another a large percent of corn farmers aren't likely to themselves in the near future.

This leaves two other solutions-the modification of cultivation techniques and the development of corn hybrids that are droughttolerant.

University of Delaware plant geneticist, Dr. Sue Sullivan, wants to see what can be done to modify existing corn hybrids to make them more tolerant of the frequent drought conditions of lower Delaware. "Most of our hybrids are a result of research and development in mid-western

some three million less than exists there. Soil types and fertility are different, The drastic effects of last climate varies in regard to summer's drought underline humidity-which gives difand ferent disease problems-and agronomists have known all there are different patterns along-the major problem in of moisture stress and difcorn production on the ferent effects of stress due to Delmarva peninsula isn't the water-holding capacity

Dr. Sullivan sees a need to periods during the growing develop new hybrid combinations which will perform People are looking at a better on the light, sandy number of solutions to the soils of the Delmarva are peninsula. She plans to begin suggesting weather work in this direction this modification as an answer. summer at the University of Others look to irrigation as Delaware's Agricultural the cure. Many feel this Experiment Station farm in would be the best and safest Georgetown. The first thing way to meet the need for she will be looking for are the factors in corn plants that contribute to drought tolerance.

These factors include fastdeveloping, deep-growing get irrigation systems for root systems better able to extract moisture from the soil and the ability of some plants to use water more efficiently--possibly by closing leaf pores (stomata) in stress conditions so that they lose less water into the air. Some hybrids have multiple-ear tendencies, others will produce larger ears at lower plant populations-other important factors. Since the corn plant's need for water is greatest around silking time. the geneticist will also be looking for plants which silk well under moisture stress. There may also be higheryielding early-season hybrids which miss or "avoid" moisture stresses altogether.

Promising corn hybrids that Dr. Sullivan identifies will be used in no-till tests being conducted by fellow plant scientists at the Experiment Station, as well as in conventional tillage studies. What the researchers as a group hope to come up with, says Dr. Sullivan, is a package of drought-tolerant hybrids and crop management techniques which will result in higher, more consistent yields for Delaware corn growers.

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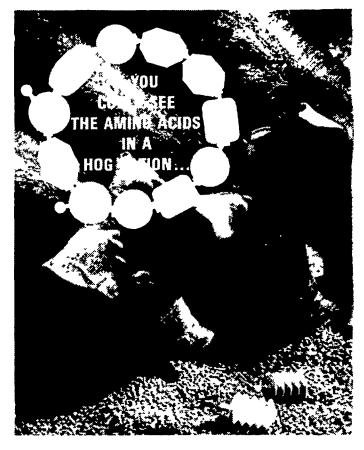
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