



NORTH DAKOTA
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From the DIRECTOR



A. G. HAZEN

However anyone tries to define agriculture in words, agriculture remains basic to life itself. At the same time, agriculture is challenging, exciting, and almost unlimited in its boundaries for encompassing new technologies.

For many years, "agriculture" was generally restricted to mean the **production** of food and fiber. Too many people still persist in this narrow definition, which adds greatly to the stigma to our industry that arises from such common misunderstanding.

If we can accept a short definition of agriculture as the art of handling our biological world for the good of mankind, then the importance of college preparation for an agricultural career, including its production phases, quickly becomes obvious.

But in addition to the production phases, agriculture also includes storage, processing, transporting, and marketing food and fiber plus all the attendant services that modern agriculture requires. Still another large field in agriculture that demands the best of college educations is that which encompasses all of the business aspects of the industry.

From this viewpoint of agriculture, we can sort out dozens of possible arrangements of formal courses and educational experiences. In fact, the smorgasbord of offerings is almost limitless. But, from the maze have emerged certain guidelines that I believe are fundamentals or essentials to college preparation for an agricultural career.

The first is furtherance of the ability to communicate clearly and effectively. The most successful individuals are those who can ably read, write and speak.

Secondly is a good grasp of mathematics, preferably through calculus and including physics. Through mathematics we can make tangible measurements of the seemingly intangible things that we find in the biological world. And we need to understand the basic principles of heat, light, sound and electricity, if for no other reason than to better understand the environment in which we live.

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On The Cover: Dr. H. Roald Lund, associate professor of agronomy, shows that tall corn will grow at the Fargo Station. This variety was grown as part of a cooperative project with the University of Missouri in a search for a day-length insensitive gene that might result in an improved variety for North Dakota. It is a cross between an open-pollinated Missouri variety and an exotic Mexican corn. The fact that this crop has tasseled is one indication that such a day-length insensitive gene is present.

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