

● Corn Borers

(Continued from Page 17)

ices including methods for disposal of stalk residue as a start toward logical and effective borer control.

Insecticides are effective in protecting corn. New and highly effective insecticides that are efficient and economical are being produced and tested. Research continues toward design of equip-

ment to permit easier, more accurate application.

The use of resistant varieties, developed through Federal-State research, is increasing each year. Such research has been underway for many years. Lines having considerable resistance or tolerance to borers are released to breeders who blend these qualities into agronomically desirable hybrids.

Research in biological control has resulted in the introduction of 24 species of parasites of cornborers. Six species are established and of these, five are abundant enough in one or more areas to be of aid in control. In Kansas in 1961, 13 percent of the borers were infected with tachina fly, one of the parasites, only 4 percent were infected with this fly in 1960.

Accurate evaluation of economic benefits from parasites is difficult. Parasitization of more than 50 percent of the borers has been observed in

some sections. This is high enough to indicate that many borers are killed by parasites.

Research on control methods continues. It is generally agreed that no one method gives all the control needed. Emphasis continues on the control methods which can be used with little additional cost to farmers.

● Leadership

((Continued from Page 18) analyzing and meeting problems facing us as citizens.

All these objectives were reached during our stay at the National 4-H Center, the assemblies, and field trips.

I feel this course was of value to me. It has given me a better understanding of just what citizenship is, the way a citizen is able to promote citizenship, and the many activities and projects the 4-H Clubs in Lancaster County have not been aware of, which deal with citizenship. As Edgar Dale said, "Democracy is not a thing, nor a package with a ribbon on it. It is a way of doing things with other people."

Manage Food Buying

Pay particular attention to the cost per serving for major food items and you'll find it easier to make choices as you shop, points out Catherine Love, Penn State extension specialist in consumer economics. It also helps if you know what foods are in season and the best buys for the week.

Penn State Mural Envisions Agindustry



A century ago President Lincoln signed the Land Grant Act commemorated by Penn State's mural on the walls of Old Main. Twenty-five years later the Hatch Act provided the first substantial support for the Pennsylvania and other State Agricultural Experiment Stations. Resulting development of agricultural science has paralleled advances in all technological fields. Scientific discoveries have been applied to agriculture as vigorously in town as on the farm. Tillers of the soil can not make tractors, refine fuels, generate electricity, synthesize chemicals, or perform a thousand other services now required by farm operators. Nor can farmers convert raw products into convenience foods. No other country has experienced a movement such as that started by the Land Grant College system and none can match American agindustry.

The man who looks before he leaps often gives the other fellow a chance to get in ahead of him.

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