



ARIZONANS YOU SHOULD KNOW

The following six Arizonans received the Distinguished Citizen's Award at the College of Agriculture Recognition Day this year.

Fred T. Boice of Tucson is president of the Arizona Cattle Growers Association and vice president of Cattle Fax, the research and information arm of the National Cattleman's Association. He has given talented leadership to many community activities, and superintended the Junior Division of the Arizona National Livestock Show. A UA alumnus himself, two of his children have also attended the university.

Dalton Cole, Jr., of Coolidge, a third-generation Arizonan, is a leader in progressive agricultural production practices. His farm is the site of the world's largest solar-powered irrigation system, dedicated in October. He is a director of the Pinal County Pest Management program, the Central Arizona Project Association, and his local Natural Resource Conservation District. He chaired his county 4-H Board for two years.

William Corpstein of Phoenix is president of the Valley Seed Company, which has given strong support in the development of new varieties of wheat, barley and alfalfa. While a director of the Pacific Seedsmen's Association, he helped the College of Agriculture develop a curriculum in seed industry management. His company and that association have given scholarships to seed management students.

Betty Clark Grounds, a second-term member of the Kingman City Council, was one of the first 4-H leaders in Mohave County and has remained one for 10 years. She is a director of the UA Alumni Association, and has been president of the Mohave County Fair Commission, the Mohave County Cancer Society and the Mohave County Cowbells.

James J. Sossaman of Higley, majority whip of the Arizona House of Representatives, is a past president of the Maricopa County Farm Bureau and the Queen Creek School Board. His Sossaman Farms were the site of important wheat variety test demonstrations in 1966. Now, he is a director of the Arizona Cotton Growers Association and the Agri-Business Council of Arizona.

James Tidwell of Globe was instrumental in getting an economic impact study done for Gila County by the UA Department of Agricultural Economics. He is a past president of the UA Alumni Association and a second-term member of the Gila County Extension Advisory Board. A former rancher, he continues to help other Gila County ranchers work with the Forest Service on grazing management problems.



KNOWLEDGE IN THE MAKING

IN ENTOMOLOGY, Dr. Theo Watson and Dr. Leon Moore are tempting tobacco budworms to their deaths by mixing a bacterium called *bacillus thuringiensis* with an appetite stimulant for the worms. The budworm is one of the most damaging cotton pests in the state, and has become increasingly resistant to chemical insecticides in common use. The bacterium can kill the worms, but is harmless to beneficial insects and other animals. The worms must eat the bacterium to be killed, so the researchers are blending it with a cottonseed-based feeding stimulant developed by Dr. Randy Bell at the USDA Cotton Insect and Physiology Lab in Phoenix. Test results from 1979 fields were promising, and testing will continue in 1980.

IN NUTRITION AND FOOD SCIENCE, Dr. Don Bourque has been studying soluble protein from plant leaves as a potential food source for people. He has extracted a highly nutritious, nearly flavorless protein called Fraction One from the leaves of alfalfa, spinach, tobacco, corn, cotton, potato, tomato and several native Arizona weeds. Commercial development and use of this extraction process is believed to be possible within five years. Crops that are grown for their fruit, seeds or roots actually have more protein in their leaves, which are now discarded, than in the parts that are now harvested.

PLANT SCIENCES AND AGRICULTURAL ECONOMICS researchers worked together to study aspects of the prolonging of harvest periods for Arizona-grown grapefruit and Valencia oranges. Arizona citrus usually gets a better price if it can be sold at a time other than the peak harvest in other states. Dr. Albert Huff and other horticulturists monitored several factors in fruit quality throughout protracted harvesting periods. Though vitamin C and juice contents declined in grapefruit after February, other quality features improved during the spring. Ripe Valencia oranges begin to turn green again after March. Economist Dr. Roger Fox found that this regreening has not been a serious economic problem even though the peak of the state's Valencia harvest has shifted from March to April and May. Almost half of Arizona's Valencias, including some with fresh-market quality, are sold for processing rather than as fresh fruit.

IN RENEWABLE NATURAL RESOURCES, Graduate Research Assistant Bruce McIntosh has begun a five-year study of elk and cattle grazing habits on a range area near the Mogollon Rim. The study should help answer controversy about whether the presence of cattle tends to move elk out of their range. The study will compare an area in which elk are the only grazing animals to an area supporting both elk and cattle. Field observations of elk and cattle compatibility will supplement analysis of forage in these areas.

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