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show them. Highlights from the commercial exhibits:

- advanced methods in forage handling
- reproductive management tools
- air filtering helmets which filter dust as well as pesticides and herbicides
- an exhibit on the Chesapeake Bay, emphasizing the water quality connection between the Bay and Pennsylvania farmers
- computer controlled feed stalls
- energy-efficient livestock waterers
- hybrid corn varieties
- computerized rations for dairy, beef and swine
- and a variety of farm equipment

Ag Progress Days has a two-fold purpose. Number one is to show the progress which agriculture has made through the years and number two is to show mem-

bers of the many-faceted farming industry how to continue to progress in agriculture.

In consideration of those two goals this year's theme, "The Agricultural Scientist — Working For a Better Tomorrow," celebrated the 100th anniversary of the signing of the Hatch Act. The Hatch Act, signed in 1887, allowed for the appropriation of federal funds for agricultural research.

"The progress of agriculture in the future must be by the introduction of scientific methods. The sooner the farmers of Pennsylvania come to see that brains, not brawn, is to be the moving power of the future, the sooner they will fall into that march of progress."

— Whitman Jordan, 1881, agricultural scientist

It was this kind of thinking which led to increased research and resulted in hundreds of improvements to benefit the farmer from better livestock nutrition to the development of growth hormones. Ag Progress Days 1987

exhibits displayed the areas to which research efforts are presently being devoted. Some of the exhibits on display examined:

- Growth hormones in livestock
- Worldwide Production and Markets
- How satellites evaluate such things as crop suitability and irrigation needs
- Improvements in corn and soybean cultures

— The effect of the environment on animal health

— Impact of acid rain on plant life

— Systems for fruit, field, forage crops and manure management

— Applications of robotics in agriculture,

Just to name a few.

The changes in agricultural industry and the farmer, as well, have experienced in the last 20, 50,

75 years are overwhelming. Computer literacy has become a requirement of sound farm management principles. This year, acknowledging the need for computer knowledge on the farm a 12-desk computer classroom was staffed by Penn State staff, faculty and students to teach the curious the basics of using a computer. Four classes each of the three days were open for attendance at no charge.

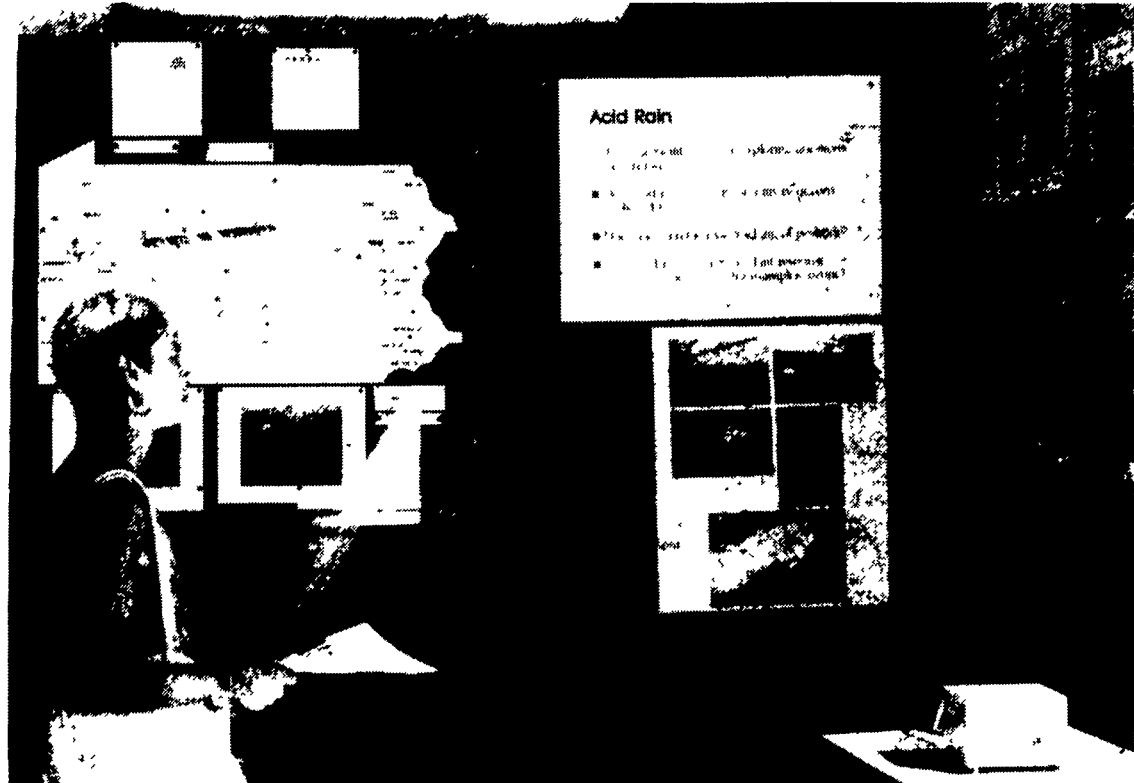
The next hundred years — what



Governor Robert Casey, Dr. Bryce Gordan and Secretary of Agriculture Boyd Wolff at a special luncheon Thursday noon.



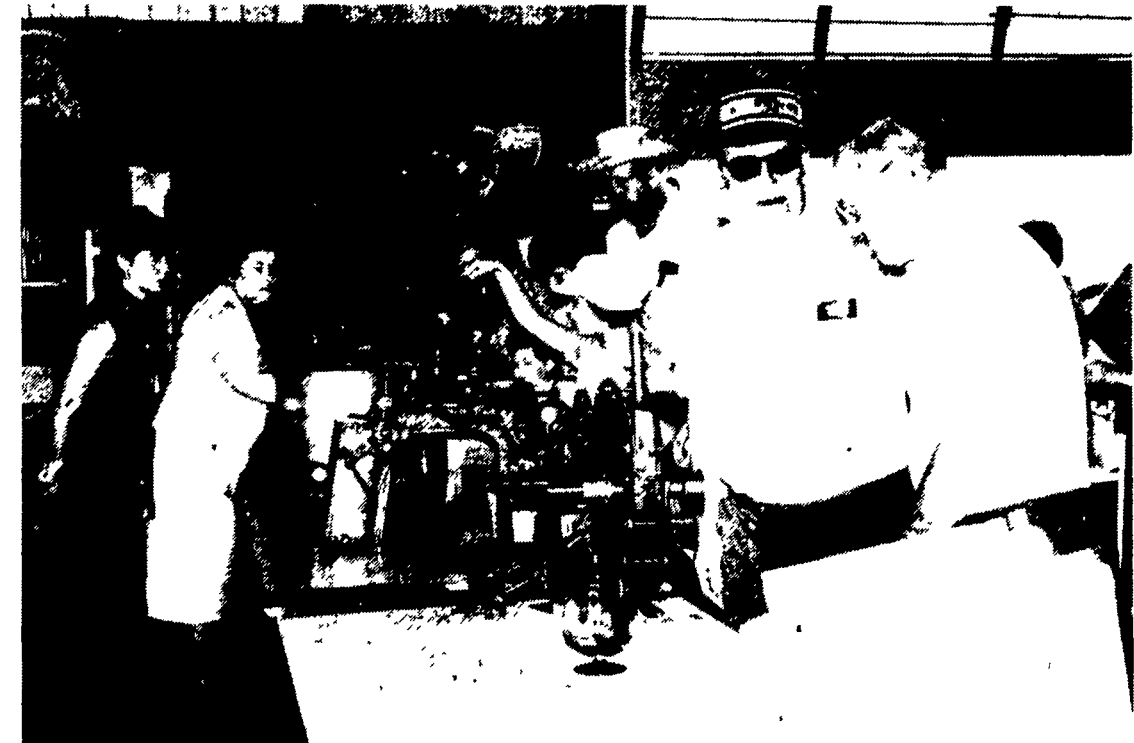
This buggy used by Charles E. Stouff of Downingtown in 1890 was built of split hickory and was said to be stronger than wood.



One of the Ag Progress exhibits examined the effects of acid rain on plant and animal life and the quality of stream water.



It was a day for hats at Rock Springs where temperatures soared into the 90's.



The Pasto Museum, open only during Ag Progress Days, gives visitors the opportunity to examine rare and ingenious equipment.