



DAVID LAPP of Bareville, second from right, was awarded a \$10 scholarship by A. R. Dean, left, President of the Pennsylvania Beekeepers Association, during the annual beekeeping short course at Pennsylvania State University. A \$10 scholarship award went also to David Ebersole of Middletown RD 1, second from left. The beekeeping short course was arranged by E. J. Anderson, Professor of Beekeeping, right.

Pa. Livestock-Rodeo Queen Entries Wanted

Any young Pennsylvania miss (unmarried, 17-25) who wants to strap on her six-guns, rope an approved sponsor, climb atop "Old Paint" and head for Harrisburg later in the fall, may ride off with the title of "Pennsylvania Livestock-Rodeo Queen" plus assorted honors and prizes the Pennsylvania Livestock and Allied Industries Association said today.

The queen will reign during the second annual Pennsylvania National Livestock Exposition, World Championship and first annual Mid-Atlantic National Truck Show, to be held simultaneously during the week of November 10-15 at the State Farm Show building and arena in Harrisburg.

Foisting that the queen will be required to ride in the grand entry for the seven rodeo performances and appear with prominent visitors the rodeo committee has ruled she will be judged on the basis of horsemanship, appearance and personality. "Charm" of sack races are ruled out. Contestants must wear Western attire and provide their own horses.

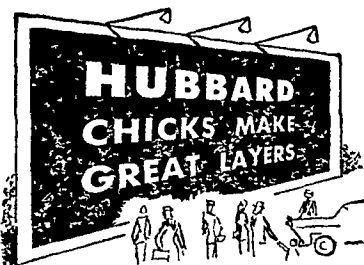
The Livestock exposition conducted in cooperation with the

Pennsylvania Department of Agriculture, has drawn up rules for the contest which stipulate contestants must be nominated (deadline, October 3 at midnight) by approved sponsoring organizations. These include 4-H, FFA or Grange clubs or units, with each individual club or unit having the right to nominate a contestant. Livestock breeders organizations, horse breeders associations, organized horse show, saddle club, guest ranch or any recognized farm organization in Pennsylvania.

The aspiring queens must be unmarried residents of Pennsylvania, between 17 and 25 years of age and must be available, if selected as queen, to devote 10 days or two weeks to representing Pennsylvania's booming livestock industry during the exposition, rodeo and truck show.

Announcements containing contest rules, suggestions for conducting preliminary local competitions and entry blanks, have been sent to all potential sponsors. Additional entry forms and information may be obtained from the exposition's offices at 1831

North Cameron Street, Harrisburg. Final judging will be held in Harrisburg.



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Test Vaccines Look Good Against Fowl Cholera

Several test vaccines prepared by USDA scientists look good against fowl cholera, an old poultry killer. Six experiments were recently conducted with test vaccines. The object was to determine the effect of the method of preparation and dosage on the degree and duration of immunity they conferred on poultry.

ARS bacteriologist K. L. Heddleston and veterinarian W. J. Hall (retired) of the Agricultural Research Center, Beltsville, Md., prepared several types of killed-virus, aqueous, emulsified, and alum-precipitated vaccines. The disease-causing *Pasteurella multocida* organisms were killed by formalin or ethylene oxide.

New Hampshire chickens were vaccinated with the test vaccines. Then doses of *Pasteurella multocida* were given to the birds at various intervals after vaccination. Unvaccinated chickens were kept as controls for each vaccine used on the birds.

The researchers found that a single dose of water-in-oil emulsified vaccine gave excellent immunity for 9 months. It should give adequate protection under industry conditions for the laying year. Researchers feel it's desirable to vaccinate under field conditions where natural outbreaks are prevalent or anticipated.

Work is now in progress to determine the minimum number of

bacteria needed per dose of emulsified vaccine to give and maintain high-level immunity. (It has been reported that emulsified vaccines can be diluted 100,000 fold and still be effective, whereas nonemulsified vaccines diluted only 100-fold aren't effective.)

Researchers found that two doses of aqueous-suspended vaccines were more effective than one in maintaining immunity. But a single dose of emulsified vaccine was better than two doses of aqueous vaccine.

The emulsified capsular vaccine (one where an enzyme is used to dissolve bacterial capsules into a suspension) gave effective immunity for at least 25 weeks.

Although the alum-precipitated vaccine was slightly more effective than the chicken embryo vaccine (made from fowl cholera infected embryos), neither was particularly satisfactory for practical field use.

Dairy marketing specialists at Kansas State College, Manhattan, Kan., estimate that U. S. population increases will require an additional two billion pounds of milk each year for the next decade. This is despite the fact that currently consumption of milk is generally below that recommended for proper nutrition.

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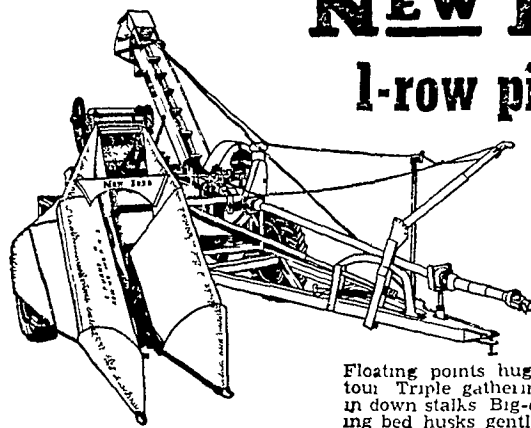
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