Marek's (Continued from Page 1)

poultry industry in Georgia approximately 18 to 20 million dol

Until recently there were no 'rol tests to determine whether a flock of birds was presently in fected or had ever been infected with Marek's disease Research from tissue culture cells infectfound the precipitating antibody in the blood of day-old chicks from MD positive dams which the causative agent of MD. was probably due to passive transfer through the egg, however, body offers any protection again-

ches for control must be taken Therefore, the subject of this paper is several possible means for controlling Marek's disease.

Controlled Exposure Using Old Litter

Time, method and degree of exposure to the Marek's agent, in the opinion of Dr Don Davis and Dr Frank Siccaidi are the keys to successful vaccination Litter seeding appears to be the simplest method of controlled exposure. This litter is taken from hens that are shedding the virus and if day-old chicks are uniformly exposed and the dosage is not too high, then they are able to overcome the disease

However, I would like to point out that controlled exposure could be dangerous (1) When you do not know whether the litter even contains the MD agent and if it does then how much do you have in the litter (2) Does the exposing material contain other, possible more harmful, disease agents?

There is much evidence which would indicate that reused litter helps to reduce MD condemnations, however, there are other researchers with data which would indicate that reused litter does not lower MD condemnations At the present time the use of old litter to reduce MD losses is confusing. My sugges-

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tion would be if you are having high MD losses and you have nothing to lose then try it, but if your losses are low then I would suggest staying away from the use of old litter for MD con-

Immunization Against Marck's Disease Using an Inactivated and a Live Attenuated Virus

only be answered by the USDA

Controlled Exposure With Infective Plasma

Of the 1,400 one-day-old chicks of the parental population injected with the GA isolate, 69% died as a result of MD by 20 weeks of age The mortality ranged from 51 to 93% for sire families Peak mortality occurred between 8 and 14 weeks postinoculation and 55% respectively Four permental poultry flock. cent mortality was observed in found to contain MD lesions

The inoculation of the paren- Form Colendar tal population with the MD agent should remove the most susceptible individuals from the breeding population so that they would not contribute off spring to the next generation If the re-Wednesday, Nov. 12 sponse of the ACRB stock to 12.13 - Pennsylvania injection with the GA isolate has geny of the remaining breeders examined Vaccination or medi- 14-15-State 411 Horse Show, should be more resistant to injection than those from uninject-The GA Isolate of MD has ed families Mortality in the pro- there has been no outbreak of workers in England using the been passed many times in cell geny of the inoculated parental any disease. The MD mortality agai gel diffusion technique deculture which resulted in the population was 26.8%, while that
results of birds reared in the monstrated a precipitin reaction loss of its oncogenic potential of the progeny from uninoculating believes the progeny from the progeny fr between sera from MD infected for the chicken Birds inoculated ed controls was 42.8% with the ling birds in a similarly constructbirds and an antigen prepared at day of age with the attenuated peak mortality for both groups ed house without filtered air and as though the nickel has gone viius are protected when chal- of progeny occurring between 7 positive pressure. ed with the MD agent They lenged with infective plasma and 11 weeks postinoculation. This would offer further evi- These differences were highly dence that herpes-type virus is significant, indicating that resistance to MD in the progeny could Birds inoculated at day of age be obtained by inoculation of the with a "killed" virus prepara- parental population if the criit does not appear that this antichallenged with infected plasma the total lesions of the progeny It would appear that a live at- from the inoculated parental At the present time there are tenuated MD vaccine could be population were less than for the no means (on the market) to made available in the near fu- uninoculated ones (425 vs. control Marek's disease, however ture, however, whether the US- 522%), these differences were until geneticists can develop a DA will allow a live virus vac- of much smaller magnitude than more resistant bird, new approacine of this nature to be sold can mortality and not significant. Thus, in a selection program, birds selected for resistance to death, only, might show gross lesions which would condemn them on processing

Control of MD by Raising Chicken in Positive Pressurized Houses

This paper is presented in responce to the widespread interest The mortality in the males was in complete environmental poul-66%, while that of the female try housing and to discuss how was 74% Cole (1968) found that four cardinal principles, (1) the female White Leghorn was strict sanitation, (2) isolation, more susceptible to inoculation (3) air filtration and (4) posiwith the JM agent The MD mor- tive pressurized poultry house, tality of the selected families are utilized to control losses to (1, 21, 28, 30) were 69, 61, 53, MD among birds in an experi-

Approximately 200 cockerels the control parental population, of the 687 birds reared in the all of which occurred after 14 filtered air, positive pressure weeks of age. There was no mor- houses were necropsied for MD tality attributable to MD in con- examination during the 40 week trol families, 1, 28 and 30; how- observation period None have ever, 3 birds in family 21 were died of the disease and no signs or lesions were observed in those

(Continued from Page 1)

7:30 PM - Agway Garden Spot Annual Meeting, Farm and Home Center.

Young

the design of this project and

Farmer Convention, Penn

5.15 P M -Lincoln 4-H Community Capon Exhibit, Legion Hall, Ephrata.

6 45 PM - Lancaster County Holstein Banquet, Farm and Home Center,

Triday, Nov. 14

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6 45 PM. — Lancaster County Guernsey Breeders meet. Spanish Restaurant. Quarryville.

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Monday Evening, Nov. 10, 1969

7:30 P.M.

Farm & Home Center, 1383 Arcadia Road, Lanc.

- Guest Speaker Glenn E. Edick
- **Reports on Operations**
- Election of four member committeemen
- Vocal selections by the "Trebleaires"

DOOR PRIZES

- 1 200 gal of fuel oil
- 2 Cook Set
- 3 1 pair Wolverine shoes
- 4 1 extension coid
- 5 1 gal enterior paint
- 6 1 1/4" drill
- 7 Claw hammer
- 8 1 gal exterior paint
- 9 Hi-intensity light
- 10 1 gal glazing compound
- 11 50 gal gasoline

- 12 Inside-Outside the mometer
- 13 Hand saw
- 14 1 gal paint iemover
- 15 cook set
- 16 1 gal outside paint
- 17 25 lb Agway cleaner
- 18 1 gal paint iemover
- 19 1 set jumper cables
- 20 1 gal plastic roof cement
- 21 1 case motor oil
- 22 1-5 gal gasoline can

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