

observations were maintained on a group of 1,141 ewes which were vaccinated by farmers, in some cases with our help, with a commercial enterotoxæmia vaccine purchased from the Commonwealth Serum Laboratories, Royal Park, Victoria.

In the former case the first dose of vaccine (5 c.c.) was given approximately six weeks before lambing and the second dose (10 c.c.) approximately ten days before lambing.

In the latter case the dose recommended for the first vaccination was 3 c.c., followed by a second dose of 7 c.c. four weeks later. Owing to the fact that the vaccine was not procured in time the four-week interval was not strictly followed, and probably insufficient time elapsed between the second dose and the commencement of lambing.

In all cases a suitable number of control ewes were reserved, which, with the vaccinated ewes, were depastured together. The particulars are given in the following tables:—

Table I.—Vaccine prepared at the Veterinary Laboratory, Wallaceville. (First dose, 5 cc.; second dose, 10 c.c.)

District and Farm.	Ewes vaccinated.	Ewes (Control).	Date of First Vaccination.	Date of Second Vaccination.
Ranfurly—				
A .. ..	326	325	27/8/36	19/9/36
B .. ..	175	175	27/8/36	17/9/36
C .. ..	150	150	24/8/36	15/9/36
D .. ..	101	100	28/8/36	17/9/36
E .. ..	274	226	25/8/36	16/9/36
F .. ..	620	650	26/8/36	18/9/36
G .. ..	217	217	25/8/36	16/9/36
Middlemarch—				
H .. ..	158	105	3/8/36	21/8/36
I .. ..	156	122	3/8/36	21/8/36
Otautau—				
J .. ..	215	215	30/7/36	22/8/36
Mossburn—				
K .. ..	107	106	4/8/36	15/9/36
L .. ..	109	109	4/8/36	15/9/36
Totals ..	2,608	2,500	..	..

Table II.—The Losses from Pulpy Kidney up to 30th November, 1936, by which Date Mortality had ceased generally, are shown.

Farm.	Vaccinated Group.	Lamb Deaths from Pulpy Kidney.	Control Group.	Lamb Deaths from Pulpy Kidney.	Remarks.
A ..	326	2	325	9	Total losses from pulpy kidney on farm 11 out of 1,150 ewes.
B ..	175	1	175	7	Total losses from pulpy kidney on farm 17 out of 650 ewes.
C ..	150	0	150	1	Total losses from pulpy kidney on farm 22 out of 1,030 ewes.
D ..	101	2	100	2	Total losses from pulpy kidney on farm 18 out of 740 ewes.
E ..	274	0	226	0	Total losses from pulpy kidney on farm 13 out of 690 ewes.