H—29

ANIMAL RESEARCH DIVISION

19

REPORT OF J. F. FILMER, DIRECTOR

DIAGNOSTIC SERVICES

The Diagnostic Section at Wallaceville examined the following samples during the year:—

Milk samples-					Total.
78.00			 	 1,252	
Biological te	est for tube	erculosis	 	 148*	
Br. abortus			 	 52	
					1,452
Blood samples	(agglutinat	ion test)-			,
Br. abortus		,			
\mathbf{Cattle}			 	 1,542	
\mathbf{Pigs}			 	 20	
Sheep			 	 27	
S. pullorum	infection:	Poultry	 	 273	
1		v			1,862
Specimens—					,
Cattle			 	 519	
\mathbf{Sheep}			 	 239	
			 	 101	
Horses			 	 100	
Dogs			 	 39	
70 Yu			 	 2,483	
n '			 	 177	
Other anima	als		 	 35	
Miscellaneou	s		 	 71	
					3,764
					7,078

* Six positive.

Blackleg and "scabby mouth" vaccines were prepared, and the number of doses issued free were--

Blackleg vaccine—

Cattle	doses (1	ml.)		 	 73,900
Sheep	doses (2	ml.)		 	 29,510
'Seabby	mouth "	vaccine:	Doses	 	 174,000

RESEARCH WORK

Facial Eczema.—The summer and autumn temperatures of 1946–47 were several degrees below normal, and this probably accounted for the absence of clinical outbreaks of facial eczema. Following the February and March rains there were short periods of very rapid pasture growth in the Poverty Bay and Hawke's Bay districts. Some slight changes were noted in lambs' livers collected from the meat-works at Hastings and the Facial Eczema Research Station at Manutuke.

Broom-corn Millet Photosensitivity.—Extracts of dried toxic broom-corn millet (Panicum miliaceum) have been made by the methods devised for use with facial-eczema grass. Slight photosensitivity, but no liver damage, was seen in a lamb dosed with an alkaline aqueous extract. Photosensitivity has been produced in both rats and guineapigs fed ground broom-corn millet, and in rats fed on ether extract of millet. Ether extract of normal grass has also produced photosensitivity in rats, but the dose required is greater than with similar extracts of millet. Other experiments suggest that this