

These two varieties were grown the following season adjacent to Green Feast peas in a block within 1 chain of an area of mosaic-infected red clover. Of the 525 plants of Green Feast peas grown 89.5 per cent. developed mosaic, while the 349 Lord Chancellor and the 578 Little Marvel plants remained healthy.

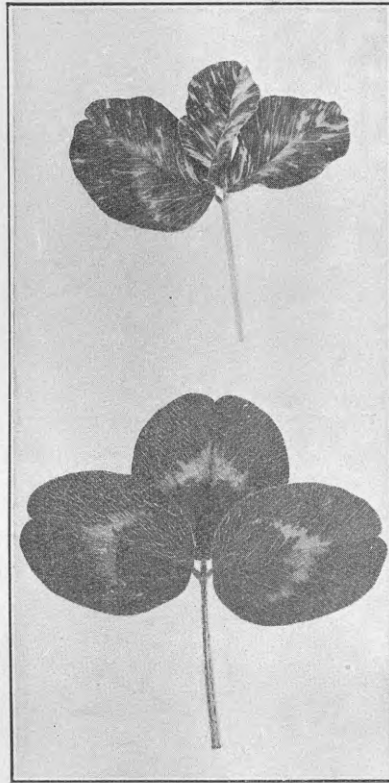


FIG. 5. THE EFFECT OF PEA-MOSAIC ON THE LEAVES OF RED CLOVER. LEAF FROM HEALTHY PLANT AT BOTTOM.

[Photo by H. Drake.]

The immunity of these two varieties was also tested in the glasshouse, where an attempt was made under controlled conditions to transmit mosaic to them by means of aphides. The results of these experiments are given in Table II.

Table II.—Determination of Varietal Immunity of Peas to Pea-mosaic.

Date of Inoculation.	Variety.	Species of Aphid.	Number of Aphides.	Number of Plants inoculated.	Number of Plants infected.
25th January, 1935..	Green Feast ..	<i>Aphis rumicis</i>	12	15	5
..	Lord Chancellor	..	12	15	0
..	Little Marvel ..	..	12	15	0
11th March, 1935 ..	Green Feast ..	..	10	20	11
..	Lord Chancellor	..	10	20	0
..	Little Marvel ..	..	10	20	0