

Supplemental Table 1: Spatiotemporal clusters of FMD outbreaks in the Protection zone without vaccination of Mpumalanga and Limpopo provinces of South Africa (2005-2016)

Year	Location	Cluster dip-tanks (n)	Radius (Km)	Observed cases	Cases in area (%)	Expected cases	Relative risk	P-value
Purely spatial								
<i>High-rate</i>								
2005-2016	Mpumalanga	16	15.1	11	68.8	2.4	6.4	0.001
2005-2016	Limpopo	4	8.4	6	100	0.9	7.9	0.002
<i>Low-rate</i>								
2005-2016	Mpumalanga	91	30.6	2	2.2	13.9	0.1	0.002
2005-2016	Mpumalanga	47	20.8	0	0.0	7.2	0.1	0.010
Space-time								
<i>High-rate</i>								
2009	Mpumalanga	5	5.8	4	80.0	0.1	65.4	0.002
2012	Mpumalanga	4	7.9	4	100	0.1	81.7	0.002
2013	Limpopo	11	8.1	8	72.7	0.2	69.6	0.001
2015	Mpumalanga	4	8.4	4	100	0.1	81.7	0.002
<i>Low-rate</i>								
2006-2010	Mpumalanga	99	44.1	0	0	7.1	0	0.029
Purely temporal								
<i>High-rates</i>								
2012-2015	-	201	NA	22	2.7	11.3	4,28	0.002
<i>Low-rates</i>								
2007-2008	-	201	NA	0	0	5.6	0	0.016