

Supplementary material

Supplementary table 1

Expert opinions of the probabilities of the observation of clinically ill horses, the investigation of these horses and the probability of sampling with the goal of testing for African horse sickness. The values are shown for the minimum estimate, the most likely estimate and the maximum estimate given by experts. The estimates are categorised by the expert and for the applicable surveillance area considered.

Expert	Surveillance area	Model parameters								
		P_{OBS}			P_{INV}			P_{SAMP}		
		Min	Most likely	Max	Min	Most likely	Max	Min	Most likely	Max
1	FZSZ_NonCZ	0.65	0.8	0.9	0.6	0.7	0.8	0.7	0.8	0.9
1	FZSZ_CZ	0.65	0.8	0.9	0.6	0.7	0.8	0.7	0.8	0.9
2	PZ	0.7	0.8	1	0.6	0.7	1	0.9	0.95	1
3	FZSZ_NonCZ	0.8	0.95	0.99	0.7	0.9	1	0.85	0.95	0.99
4	FZSZ_NonCZ	0.5	0.65	1	0.6	0.7	0.8	0.8	0.95	1
4	FZSZ_CZ	0.5	0.8	1	0.7	0.9	1	0.8	0.95	1
5	FZSZ_NonCZ	0.4	0.6	0.75	0.5	0.7	0.8	0.85	0.95	1
5	FZSZ_CZ	0.8	0.94	0.96	0.9	0.98	1	0.85	0.95	1
5	PZ	0.8	0.94	0.96	0.88	0.9	0.95	0.85	0.95	1
6	PZ	0.5	0.8	1	0.4	0.8	1	1	1	1
7	PZ	0.7	0.9	1	0.5	0.7	0.85	1	1	1
8	PZ	0.1	0.7	0.8	0.1	0.9	1	0.6	0.75	1
9	FZSZ_NonCZ	0.4	0.48	0.8	0.4	0.6	0.8	0.9	0.95	1
9	FZSZ_CZ	0.6	0.8	0.9	0.5	0.7	0.9	0.9	0.95	1
10	PZ	0.3	0.7	0.9	0.6	0.65	0.99	0.5	0.6	1
11	PZ	0.8	0.9	0.95	0.9	0.95	1	0.95	0.98	1
12	FZSZ_NonCZ	0.5	0.8	1	0.8	0.85	0.9	0.55	0.6	1

FZSZ_CZ: AHS free and surveillance zone within the 2016 AHS outbreak containment zone

FZSZ_NonCZ: AHS free and surveillance zone outside the 2016 AHS outbreak containment zone

PZ: protection zone

Min: Minimum

Max: Maximum