

Appendix 2

Crosstabulation tables for distribution of 388 sheep examined for brucellosis according to potential risk factors

		governorate		
		Umdurman	Khartoum north	Khartoum
negative	Count	92	238	48
	% within governorate	$92/94*100 = 97.9\%$	$238/244*100 = 97.5\%$	$48/50*100 = 96.0\%$
positive	Count	2	6	2
	% within governorate	$2/94*100 = 2.1\%$	$6/244*100 = 2.5\%$	$2/50*100 = 4.0\%$
Total	Count	94	244	50
	% within governorate	$94/94*100 = 100.0\%$	$244/244*100 = 100.0\%$	$50/50*100 = 100.0\%$

		locality				
		Bahary	Umbeda	Karary	Sharg elneel	Jabal awlia
negative	Count	85	10	82	153	48
	% within locality	$85/85*100 = 100.0\%$	$10/10*100 = 100.0\%$	$82/84*100 = 97.6\%$	$153/159*100 = 96.2\%$	$48/50*100 = 96.0\%$
positive	Count	0	0	2	6	2
	% within locality	$0/85*100 = 0.0\%$	$0/10*100 = 0.0\%$	$2/84*100 = 2.4\%$	$6/159*100 = 3.8\%$	$2/50*100 = 4.0\%$
Total	Count	85	10	84	159	50
	% within locality	$85/85*100 = 100.0\%$	$10/10*100 = 100.0\%$	$84/84*100 = 100.0\%$	$159/159*100 = 100.0\%$	$50/50*100 = 100.0\%$

		occupation		
		governorate officer	trader	farmer
negative	Count % within occupation	84 $84/86*100 =97.7\%$	127 $127/129*100 =98.4\%$	167 $167/173*100 =96.5\%$
positive	Count % within occupation	2 $2/86*100 =2.3\%$	2 $2/129*100 =1.6\%$	6 $6/173*100 =3.5\%$
Total	Count % within occupation	86 $86/86*100 =100.0\%$	129 $129/129*100 =100.0\%$	173 $173/173*100 =100.0\%$

		education				
		khalwa	high secondary	primery	university	illiterate
negative	Count % within education	99 $99/104*100 =95.2\%$	64 $64/64*100 =100.0\%$	91 $91/92*100 =98.9\%$	108 $108/112*100 =96.4\%$	16 $16/16*100 =100.0\%$
positive	Count % within education	5 $5/104*100 =4.8\%$	0 $0/64*100 =.0\%$	1 $1/92*100 =1.1\%$	4 $4/112*100 =3.6\%$	0 $0/16*100 =.0\%$
Total	Count % within education	104 $104/104*100 =100.0\%$	64 $64/64*100 =100.0\%$	92 $92/92*100 =100.0\%$	112 $112/112*100 =100.0\%$	16 $16/16*100 =100.0\%$

	age			
	< 2 year	2_4 year	> 4 year	
Count	119	163	96	37
% within age	119/121*100 =98.3%	163/168*100 =97.0%	96/99*100 =97.0%	
Count	2	5	3	10/38
% within age	2/121*100 =1.7%	5/168*100 =3.0%	3/99*100 =3.0%	
Total Count	121	168	99	388/38
% within age	121/121*100 =100.0%	168/168 =100.0%	99/99*100 =100.0%	

	sex		Total
	female	male	
negative Count	329	49	378
% within sex	329/338*100 =97.3%	49/50*100 =98.0%	378/388*100 =97.4%
positive Count	9	1	10
% within sex	9/338*100 =2.7%	1/50*100 =2.0%	10/388*100 =2.6%
Total Count	338	50	388
% within sex	338/338*100 =100.0%	50/50*100 =100.0%	388/388*100 =100.0%

	type of herd		Total
	mixed	pure	

negative	Count % within type of herd	305 $305/313*100 =97.4\%$	73 $73/75*100 =97.3\%$	378 $378/388*100 =97.4\%$
positive	Count % within type of herd	8 $8/313*100 =2.6\%$	2 $2/75*100 =2.7\%$	10 $10/388*100 =2.6\%$
Total	Count % within type of herd	313 $313/313*100 =100.0\%$	75 $75/75*100 =100.0\%$	388 $388/388*100 =100.0\%$

		breed source			
		within farm	local market	cross	
negative	Count % within breed source	12 $12/12*100 =100.0\%$	343 $343/351*100 =97.7\%$	23 $23/25*100 =92.0\%$	378
positive	Count % within breed source	0 $0/12*100 =.0\%$	8 $8/351*100 =2.3\%$	2 $2/25*100 =8.0\%$	10
Total	Count % within breed source	12 $12/12*100 =100.0\%$	351 $351/351*100 =100.0\%$	25 $25/25*100 =100.0\%$	388

	know brucellosis	Total
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		yes	no	
negative	Count	248	130	378
	% within know brucellosis	$248/254*100 =97.6\%$	$130/134*100 =97.0\%$	$378/388*100$
positive	Count	6	4	10
	% within know brucellosis	$6/254*100 =2.4\%$	$4/134*100 =3.0\%$	$10/388*100$
Total	Count	254	134	388
	% within know brucellosis	$254/254*100 =100.0\%$	$134/134*100 =100.0\%$	$388/388*100 =$

		abortion cases		Total
		no	yes	
negative	Count	194	184	378
	% within abortion cases	$194/195*100 =99.5\%$	$184/193*100 =95.3\%$	$378/388*100 =$
positive	Count	1	9	10
	% within abortion cases	$1/195*100 =.5\%$	$9/193*100 =4.7\%$	$10/388*100 =$
Total	Count	195	193	388
	% within abortion cases	$195/195*100 =100.0\%$	$193/193*100 =100.0\%$	$388/388*100 =$

		source of green fodder

		from market	grazing land	cut it from the farm
negative	Count	111	212	55
	% within source of green fodder	$111/111*100 = 100.0\%$	$212/219*100 = 96.8\%$	$55/58*100 = 94.8\%$
positive	Count	0	7	3
	% within source of green fodder	$0/111*100 = 0.0\%$	$7/219*100 = 3.2\%$	$3/58*100 = 5.2\%$
Total	Count	111	219	58
	% within source of green fodder	$111/111*100 = 100.0\%$	$219/219*100 = 100.0\%$	$58/58*100 = 100.0\%$

		water source			
		wells	common canal	tape water	
negative	Count	128	204	46	
	% within water source	$128/128*100 = 100.0\%$	$204/212*100 = 96.2\%$	$46/48*100 = 95.8\%$	$378/378 = 100.0\%$
positive	Count	0	8	2	
	% within water source	$0/128*100 = 0.0\%$	$8/212*100 = 3.8\%$	$2/48*100 = 4.2\%$	$10/388 = 2.6\%$
Total	Count	128	212	48	
	% within water source	$128/128*100 = 100.0\%$	$212/212*100 = 100.0\%$	$48/48*100 = 100.0\%$	$388/388 = 100.0\%$

		herd size		Total
		small	large	
negative	Count	305	73	378
	% within herd size	$305/312*100 = 97.8\%$	$73/76*100 = 96.1\%$	$378/388*100 = 97.4\%$
positive	Count	7	3	10
	% within herd size	$7/212*100 = 2.2\%$	$3/76*100 = 3.9\%$	$10/388*100 = 2.6\%$
Total	Count	312	76	388
	% within herd size	$312/312*100 = 100.0\%$	$76/76*100 = 100.0\%$	$388/388 = 100.0\%$