



Additional Material Related to the Publication

Amelung S, Hartmann M, Haas L, Kreienbrock L.
Factors Associated with the Bovine Viral Diarrhoea (BVD) Status
in Cattle Herds in Northwest Germany.
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Data Description

		Quantitative Data								
Variable		n	Mean	Med	CV ¹	Min	5% ²	95% ³	Max	p ⁴
Milk yield	BVD +	303	8,754	9,000	12.0	6,000	6,800	10,500	11,500	<0.8636
	BVD -	1,435	8,741	9,000	14.3	5,000	6,500	10,500	12,200	
Herd size	BVD +	354	187	160	62.9	10	34	410	850	<0.0001
	BVD -	2,188	118	100	85.9	1	8	292	906	

		Categorical Data							
Variable	Category	BVD + n	BVD + %	BVD - n	BVD - %	OR ⁵	p ⁶	CI ⁷	
Type of production	dairy	315	17.06	1,531	82.94	1			
	suckler	31	5.85	499	94.15	0.3	<.0001	0.21-0.44	
	other	8	4.82	158	95.18	0.25	<.0001	0.12-0.51	
Breed	dairy	273	16.71	1,361	83.29	1			
	beef	23	4.61	476	95.39	0.24	<.0001	0.16-0.37	
	other	58	14.18	351	85.82	0.82	0.2149	0.61-1.12	
Other species on farm	no other species	272	13.56	1,734	86.44	1			
	sheep or cattle or pigs	82	15.30	454	84.70	1.15	0.3015	0.88-1.50	
Pasture	year-round	18	5.83	291	94.17	1			
	summer	287	14.76	1,658	85.24	2.80	<.0001	1.71-4.58	
	no pasture	49	17.01	239	82.99	3.31	<.0001	1.88-5.84	
Contact to other cattle herds on pasture	no	198	12.64	1,369	87.36	1			
	yes	107	15.57	580	84.43	1.28	0.0604	0.99-1.65	
	no pasture	49	17.01	239	82.99	1.42	0.0444	1.01-1.99	
Contact to sheep on pasture	no	268	13.66	1,694	86.34	1			
	yes	37	12.67	255	87.33	0.92	0.6451	0.63-1.33	
	no pasture	49	17.01	239	82.99	1.30	0.1265	0.93-1.81	
Contact to pigs on pasture	no	290	14.15	1,760	85.85	1			
	yes	15	7.35	189	92.65	0.48	0.0068	0.28-0.83	
	no pasture	49	17.01	239	82.99	1.24	0.1956	0.89-1.73	

		Categorical Data						
Variable	Category	BVD + n	BVD + %	BVD - n	BVD - %	OR ⁵	p ⁶	CI ⁷
Contact to wild ruminants on pasture	no	92	12.35	653	87.65	1		
	yes	213	14.12	1,296	85.88	1.17	0.2488	0.90-1.52
	no pasture	49	17.01	239	82.99	1.46	0.0502	1.00-2.12
Stabling form	pure tethering	57	10.42	490	89.58	1		
	pure loose housing	242	18.13	1,093	81.87	1.9	<.0001	1.40-2.59
	other	55	8.33	605	91.67	0.78	0.2135	0.53-1.15
Calving boxes	yes	290	16.61	1,456	83.39	1		
	no	40	7.8	473	92.2	0.42	<.0001	0.30-0.60
	no statement	24	8.48	259	91.52	0.47	0.0005	0.30-0.72
Calf housing	pure igloo/huts	39	18.4	173	81.6	1		
	diff. combinations	279	15.15	1,562	84.85	0.79	0.2167	0.55-1.15
	no statement	36	7.36	453	92.64	0.35	<.0001	0.22-0.57
Contact to pregnant heifers	no	208	17.19	1,002	82.81	1		
	yes	113	11.31	886	88.69	0.61	<.0001	0.48-0.79
	no statement	33	9.91	300	90.09	0.53	0.0012	0.36-0.78
Purchase	no	134	11.01	1,083	88.99	1		
	yes	200	17.39	950	82.61	1.70	<.0001	1.34-2.15
	no statement	20	11.43	155	88.57	1.04	0.8691	0.63-1.72
Sale of cattle	no	99	13.13	655	86.87	1		
	yes	233	14.65	1,357	85.35	1.14	0.3229	0.88-1.46
	no statement	22	11.11	176	88.89	0.83	0.4478	0.51-1.35
Participation at shows and auctions	no	253	13.65	1,601	86.35	1		
	yes	68	15.01	385	84.99	1.12	0.4518	0.84-1.49
	no statement	33	14.04	202	85.96	1.03	0.8677	0.70-1.53
Artificial insemination	yes	275	14.66	1,601	85.34	1		
	no	64	11.83	477	88.17	0.78	0.0950	0.58-1.04
	no statement	15	12.00	110	88.00	0.79	0.4136	0.46-1.38
Bull for insemination	no	171	13.02	1,142	86.98	1		
	yes	162	14.94	922	85.06	1.17	0.1759	0.93-1.48
	no statement	21	14.48	124	85.52	1.13	0.6219	0.69-1.85
Participation at control programme	no	140	13.79	875	86.21	1		
	yes	167	17.04	813	82.96	1.28	0.0445	1.01-1.64
	don't know	25	8.56	267	91.44	0.59	0.0177	0.37-0.92
	no statement	22	8.63	233	91.37	0.59	0.0271	0.37-0.95
Satisfaction with ear notch system	very satisfied	54	13.20	355	86.80	1		
	satisfied	227	14.48	1,341	85.52	1.11	0.5111	0.81-1.53
	less satisfied	52	13.54	332	86.46	1.03	0.8886	0.68-1.55
	dissatisfied	13	10.83	107	89.17	0.80	0.4925	0.42-1.52
Region	east	29	8.03	332	91.97	1		
	west	233	16.80	1,154	83.20	2.31	<.0001	1.54-3.46
	central	92	11.59	702	88.41	1.5	0.0675	0.97-2.32

¹ coefficient of variation ² 5% percentile ³ 95% percentile ⁴ p-value Wald's Chi²-Test⁵ Odds Ratio ⁶ p-value Chi²-Test ⁷ 95% confidence interval