

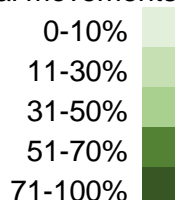
# Appendix 1. Accompanying tables to surveillance report (by chapter)

Appendix Table 1 (related to chapter 2.2): Number and percentage of animal movements from GB Areas to each TB Area in Wales, 2020

Number of animal moves in 2020	Welsh TB Area Moved To:				
GB TB Area Moved From:	Wales: High East	Wales: High West	Wales: Intermediate Mid	Wales: Intermediate North	Wales: Low
England: HRA	16,248 (26.18%)	6,131 (6.51%)	3,708 (8.62%)	6,126 (15.25%)	3,672 (3.68%)
England: Edge	3,793 (6.11%)	854 (0.91%)	858 (2%)	11,914 (29.65%)	4,518 (4.53%)
England: LRA	2,426 (3.91%)	296 (0.31%)	471 (1.1%)	1,046 (2.6%)	3,482 (3.49%)
Scotland	275 (0.44%)	260 (0.28%)	62 (0.14%)	28 (0.07%)	692 (0.69%)
Wales: High East	20,671 (33.3%)	2,150 (2.28%)	3,288 (7.65%)	1,635 (4.07%)	1,056 (1.06%)
Wales: High West	6,794 (10.95%)	73,070 (77.59%)	12,782 (29.73%)	235 (0.58%)	568 (0.57%)
Wales: Intermediate Mid	6,723 (10.83%)	10,777 (11.44%)	19,006 (44.2%)	603 (1.5%)	1,171 (1.17%)
Wales: Intermediate North	3,338 (5.38%)	172 (0.18%)	506 (1.18%)	11,664 (29.03%)	8,345 (8.37%)
Wales: Low	1,799 (2.9%)	468 (0.5%)	2,316 (5.39%)	6,925 (17.24%)	76,236 (76.43%)
<b>Total</b>	62,067	94,178	42,997	40,176	99,740

## Key to table 1.2.1:

Percentage of animal movements



**Appendix Table 2 (related to chapter 3.1): The number of skin, IFN- $\gamma$  and antibody (Ab) tests and accompanying data on the number of reactors, detected lesions (DL) and *M. bovis* (Mb)**

Area/ Year	No. skin tests	Reactors (SICCT standard)	DL (SICCT standard)	Mb (SICCT standard)	Reactors (SICCT severe)	DL (SICCT severe)	Mb (SICCT severe)	No. IFN- $\gamma$ tests	Reactors (IFN- $\gamma$ )	DL (IFN- $\gamma$ )	Mb (IFN- $\gamma$ )	No. antibody tests	Reactors (Ab)	DL (Ab)	Mb (Ab)
<b>HTBAE</b>															
2011	442,834	1,202	466	280	689	84	32	1,011	126	29	5	0	0	0	0
2012	446,149	1,457	578	308	654	99	30	3,297	275	19	5	0	0	0	0
2013	428,213	998	385	252	352	39	15	1,031	102	10		0	0	0	0
2014	424,489	1,166	548	287	434	81	29	4,029	323	36	4	0	0	0	0
2015	437,338	1,012	447	216	436	72	24	5,424	336	28	1	0	0	0	0
2016	426,732	845	355	237	423	59	25	3,365	360	15	4	0	0	0	0
2017	446,561	1,097	491	266	497	68	22	5,587	328	24	6	0	0	0	0
2018	456,261	816	337	194	388	49	21	8,565	450	52	3	550	21	2	2
2019	433,634	655	297	168	345	37	20	8,353	426	17	1	633	42	0	0
2020	394,899	1,009	453	189	374	47	16	6,851	423	28	10	1,016	115	0	0
<b>HTBAW</b>															
2011	826,834	2,135	566	224	1,438	143	25	2,396	350	21	2	0	0	0	0
2012	886,099	2,558	927	325	1,803	127	35	3,613	669	40	7	0	0	0	0
2013	890,091	1,516	504	179	888	62	22	4,172	593	21	2	10	7	0	0
2014	831,035	1,393	641	267	762	104	40	5,127	452	35	2	0	0	0	0
2015	899,761	1,827	576	239	1,454	106	33	12,077	1,114	43	5	0	0	0	0
2016	924,384	2,261	612	200	1,412	89	24	11,003	1,403	59	21	0	0	0	0
2017	914,784	1,786	486	203	1,346	62	27	13,265	1,247	28	9	0	0	0	0
2018	937,223	1,979	563	235	1,517	86	24	23,233	1,548	34	8	268	9	0	0
2019	941,928	1,730	408	191	1,691	77	27	36,366	1,913	65	12	1,757	134	0	0
2020	831,342	1,630	353	158	1,474	50	23	24,549	1,784	58	13	3,705	408	1	1
<b>ITBAM</b>															
2011	209,837	233	48	29	89	2	1	1,066	67	11	0	0	0	0	0
2012	198,601	176	49	30	111	7	3	228	33	6	4	0	0	0	0
2013	203,008	171	37	34	63	10	7	700	13	0	0	0	0	0	0
2014	207,675	144	37	23	53	1		906	58	0	0	0	0	0	0
2015	198,815	222	72	32	122	13	5	273	21	5	0	0	0	0	0
2016	203,950	280	69	16	130	7	1	1,424	155	13	6	0	0	0	0

Area/ Year	No. skin tests	Reactors (SICCT standard)	DL (SICCT standard)	Mb (SICCT standard)	Reactors (SICCT severe)	DL (SICCT severe)	Mb (SICCT severe)	No. IFN-γ tests	Reactors (IFN-γ)	DL (IFN- γ)	Mb (IFN- γ)	No. antibody tests	Reactors (Ab)	DL (Ab)	Mb (Ab)
2017	204,746	122	29	19	92	10	2	1,456	156	3	0	0	0	0	0
2018	203,823	164	49	24	135	19	2	2,983	248	21	1	0	0	0	0
2019	217,024	196	48	26	135	12	6	2,512	180	8	3	20	0	0	0
2020	210,199	178	57	24	109	5	2	1,933	191	20	1	152	21	0	0
ITBAN															
2011	140,338	148	46	30	47	4	4	1,850	42	0	0	0	0	0	0
2012	153,923	188	72	33	90	13	5	4,665	187	2	1	0	0	0	0
2013	154,689	90	23	20	66	17	6	4,131	130	8	4	0	0	0	0
2014	152,223	168	86	29	43	15	3	5,355	238	9	4	0	0	0	0
2015	154,279	119	42	21	59	5	1	6,281	247	5	0	0	0	0	0
2016	148,537	88	34	33	41	5	5	7,431	365	4	2	0	0	0	0
2017	171,768	127	31	26	65	4	1	11,140	447	7	1	0	0	0	0
2018	186,879	220	53	34	103	2	1	12,176	251	8	3	66	4	0	0
2019	191,558	224	53	31	164	4	2	12,853	429	10	3	840	105	0	0
2020	181,630	234	65	32	159	22	4	14,227	506	31	3	1,343	115	0	0
LTBA															
2011	267,401	49	2	4	12	0	0	440	29	0	0	0	0	0	0
2012	266,602	36	5	6	9	0	0	956	18	1	0	0	0	0	0
2013	268,996	45	7	7	5	1	0	1,140	21	0	0	0	0	0	0
2014	274,361	36	13	9	4	0	0	3,955	101	1	0	0	0	0	0
2015	298,395	31	9	8	4	0	0	3,354	77	2	1	0	0	0	0
2016	305,574	56	6	7	15	0	0	4,184	214	2	1	0	0	0	0
2017	278,984	20	8	7	13	0	0	1,665	38	1	0	0	0	0	0
2018	270,747	41	9	7	26	1	1	6,624	162	3	1	0	0	0	0
2019	259,944	29	8	6	20	3	1	1,977	49	1	0	132	10	0	1
2020	266,676	112	41	32	49	1	0	5,970	107	10	4	0	0	0	0

**Appendix Table 3 (related to chapter 3.1): The number of IRs for retest, number of reactors to 2xIR, 3xIR and DC, and accompanying data on the number (%) of detected lesioned (DL) animals and *M. bovis* (Mb) positives**

TB Area/ Year	Total skin tests	Total 2xIR	Total DL 2xIR	% DL 2xIR	Total Mb 2xIR	Total 3xIR	Total DL 3xIR	% DL 3xIR	Total Mb 3xIR	Total DC	Total DL DC	% DL DC	Total Mb DC	Total IRs For Retest
<b>HTBAE</b>														
2011	442,834	114	18	15.8	14	16	0	0.0	0	363	17	4.7	9	2,597
2012	446,149	128	17	13.3	16	17	1	5.9	0	209	10	4.8	4	2,645
2013	428,213	96	14	14.6	14	32	0	0.0	0	96	5	5.2	3	2,212
2014	424,489	71	13	18.3	13	17	0	0.0	0	142	14	9.9	8	2,007
2015	437,338	98	17	17.3	14	24	0	0.0	0	143	12	8.4	2	2,539
2016	426,732	83	12	14.5	10	32	0	0.0	0	201	5	2.5	5	2,109
2017	446,561	82	11	13.4	7	13	0	0.0	0	491	18	3.7	2	2,274
2018	456,261	80	14	17.5	16	24	0	0.0	0	429	10	2.3	1	2,315
2019	433,634	54	6	11.1	4	28	1	3.6	0	468	17	3.6	8	1,780
2020	394,899	44	2	4.5	1	26	0	0.0	0	193	26	13.5	14	2,064
<b>HTBAW</b>														
2011	826,834	436	18	4.1	10	79	0	0.0	0	250	10	4.0	4	8,366
2012	886,099	516	22	4.3	17	98	2	2.0	0	301	18	6.0	4	11,331
2013	890,091	390	14	3.6	11	129	3	2.3	0	197	9	4.6	0	8,017
2014	831,035	251	19	7.6	12	65	5	7.7	0	349	29	8.3	8	6,842
2015	899,761	308	30	9.7	23	167	4	2.4	0	514	26	5.1	5	10,993
2016	924,384	341	5	1.5	3	135	1	0.7	0	1,288	42	3.3	10	9,216
2017	914,784	245	10	4.1	7	105	0	0.0	0	1,646	35	2.1	9	8,561
2018	937,223	178	8	4.5	6	115	0	0.0	1	2,389	40	1.7	11	7,895
2019	941,928	202	15	7.4	9	111	1	0.9	0	2,636	34	1.3	4	7,818
2020	831,342	138	8	5.8	4	86	2	2.3	0	812	23	2.8	9	8,648
<b>ITBAM</b>														
2011	209,837	31	3	9.7	1	3	0	0.0	0	23	1	4.3	2	807
2012	198,601	35	3	8.6	5	5	0	0.0	0	26	1	3.8	0	862
2013	203,008	25	2	8.0	0	1	0	0.0	0	21	0	0.0	0	569
2014	207,675	27	3	11.1	1	1	0	0.0	0	49	3	6.1	0	670
2015	198,815	17	2	11.8	2	0	0	0.0	0	51	4	7.8	2	610

TB Area/ Year	Total skin tests	Total 2xIR	Total DL 2xIR	% DL 2xIR	Total Mb 2xIR	Total 3xIR	Total DL 3xIR	% DL 3xIR	Total Mb 3xIR	Total DC	Total DL DC	% DL DC	Total Mb DC	Total IRs For Retest	
2016	203,950	16	1	6.3	1	1	0	0.0	0	142	24	16.9	1	672	
2017	204,746	31	1	3.2	1	6	0	0.0	0	26	0	0.0	0	982	
2018	203,823	15	0	0.0	1	12	0	0.0	0	54	1	1.9	0	955	
2019	217,024	26	4	15.4	2	12	1	8.3	0	77	3	3.9	1	1,172	
2020	210,199	12	1	8.3	2	2	0	0.0	0	63	4	6.3	2	796	
ITBAN															
2011	140,338	17	1	5.9	1	4	0	0.0	0	16	0	0.0	0	438	
2012	153,923	35	5	14.3	5	3	0	0.0	0	32	3	9.4	1	625	
2013	154,689	40	1	2.5	2	4	0	0.0	0	26	0	0.0	0	507	
2014	152,223	26	3	11.5	5	0	0	0.0	0	106	6	5.7	1	390	
2015	154,279	10	0	0.0	0	8	1	12.5	0	10	1	10.0	0	504	
2016	148,537	8	0	0.0	0	0	0	0.0	0	26	2	7.7	1	320	
2017	171,768	19	2	10.5	1	6	0	0.0	0	72	2	2.8	0	720	
2018	186,879	24		0.0	0	12	0	0.0	0	125	1	0.8	0	832	
2019	191,558	16	1	6.3	0	15	0	0.0	0	236	5	2.1	1	687	
2020	181,630	19	3	15.8	4	16	0	0.0	0	152	12	7.9	2	880	
LTBA															
2011	267,401	24	0	0.0	0	0	0	0.0	0	6	0	0.0	0	280	
2012	266,602	21	0	0.0	0	0	0	0.0	0	18	0	0.0	0	265	
2013	268,996	19	1	5.3	1	0	0	0.0	0	9	0	0.0	0	218	
2014	274,361	11	0	0.0	0	0	0	0.0	0	7	0	0.0	0	153	
2015	298,395	11	1	9.1	2	0	0	0.0	0	5	0	0.0	0	158	
2016	305,574	8	0	0.0	0	0	0	0.0	0	15	1	6.7	1	253	
2017	278,984	14	1	7.1	1	0	0	0.0	0	6	0	0.0	0	227	
2018	270,747	10	3	30.0	4	0	0	0.0	0	14	1	7.1	1	266	
2019	259,944	6	0	0.0	0	0	0	0.0	0	68	1	1.5	0	221	
2020	266,676	12	1	8.3	1	0	0	0.0	0	45	1	2.2	1	334	

**Appendix Table 4 (related to chapter 3.2): Tests in herds not under restriction (surveillance tests), resulting incidents and incidents per 100 herd surveillance tests, 2020**

Surveillance test type <sup>1</sup>	No. herd tests	No. incidents Total	No. incidents OTF-W	Incidents per 100 herd tests Total	Incidents per 100 herd tests OTF-W	Restricted following VE-IR test <sup>2</sup> Total	Restricted following VE-IR test <sup>2</sup> OTF-W
Routine	7,246	161	118	2.22	1.63	46	26
Area Risk	3,402	215	206	6.32	6.06	62	58
Herd Risk	1,024	113	110	11.04	10.74	28	27
Movement Risk 2	11,730	44	38	0.38	0.32	3	2
Movement Risk 1	2,412	10	10	0.41	0.41	0	0
Control	101	64	63	63.37	62.38	0	0
New Herd	126	5	5	3.97	3.97	0	0
<b>Slaughterhouse case (SLC)<sup>3</sup></b>	<b>194,323</b>	<b>64</b>	<b>63</b>	<b>0.03</b>	<b>0.03</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>220,624</b>	<b>614</b>	<b>552</b>	<b>0.28</b>	<b>0.25</b>	<b>139</b>	<b>113</b>

<sup>1</sup> See Appendix 3 for test type category details.

<sup>2</sup> Incidents where movement restrictions did not commence (in 2019) until an inconclusive reactor test was performed.

<sup>3</sup> Number of animals slaughtered from herds that were not under restriction; calculated at the animal-level and not the herd-level and therefore not directly comparable with other surveillance test types within this table.

**Appendix Table 5 (related to chapter 3.3): Culture results<sup>1,2</sup> from cattle with TB-like lesions detected during slaughterhouse surveillance in Wales, 2016-2020**

Year	Number of samples submitted	<i>M. bovis</i>	<i>M. avium</i>	<i>Actinobacillus</i> spp.	Unclassified	Negative	Percentage <i>M. bovis</i> (%)
2016	95	49	0	11	0	35	51.6
2017	97	59	0	9	0	29	60.8
2018	138	81	0	9	0	47	58.7
2019	106	64	0	9	0	33	60.4
2020	122	75	0	5	1	0	61.5

<sup>1</sup> Samples where the mycobacterium detected was 'other' than *M. bovis* are not included in the authorised culture results above.

<sup>2</sup> There were no contaminated samples recorded over the last five years, therefore they are not displayed in the table.

**Appendix Table 6 (related to chapter 3.4): Reactors identified at the first whole herd test following a TB incident, by TB Area (2020)**

<b>(a) HTBAE: Disclosing test</b>	<b>New incidents (Total TB)</b>	<b>New incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	16	16	12.6	0	0	1
Skin testing - Risk	140	136	3.9	2	1	4
Skin testing - Routine	45	37	1.6	1	1	2
<b>Total</b>	<b>201</b>	<b>189</b>	<b>4.1</b>	<b>2</b>	<b>1</b>	<b>3</b>
<b>(b) HTBAW: Disclosing test</b>	<b>New incidents (Total TB)</b>	<b>New incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	29	28	5.0	0	0	6
Skin testing - Risk	167	159	4.6	3	1	6
Skin testing - Routine	57	52	3.6	2	1	5
<b>Total</b>	<b>253</b>	<b>239</b>	<b>4.4</b>	<b>2</b>	<b>1</b>	<b>6</b>
<b>(c) ITBAM: Disclosing test</b>	<b>New incidents (Total TB)</b>	<b>New incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	9	9	2.8	0	0	5
Skin testing - Risk	25	21	4.6	1	1	3
Skin testing - Routine	14	5	1.4	1	0	1



<b>Total</b>	<b>48</b>	<b>35</b>	<b>3.3</b>	<b>1</b>	<b>0</b>	<b>3</b>
<b>(d) ITBAN: Disclosing test</b>	<b>New incidents (Total TB)</b>	<b>New incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	6	6	19.7	4	0	7
Skin testing - Risk	41	40	2.5	2	1	4
Skin testing - Routine	13	9	1.5	1	0	2
<b>Total</b>	<b>60</b>	<b>55</b>	<b>4.0</b>	<b>2</b>	<b>1</b>	<b>3</b>
<b>(e) LTBA: Disclosing test</b>	<b>New incidents (Total TB)</b>	<b>New incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	4	4	10.8	2	0	3
Skin testing - Risk	16	15	4.4	2	1	6
Skin testing - Routine	32	15	2.1	1	1	3
<b>Total</b>	<b>52</b>	<b>34</b>	<b>3.4</b>	<b>1</b>	<b>1</b>	<b>4</b>

**Appendix Table 7 (related to chapter 3.4): Total number of reactors identified in incidents that closed in 2020, by TB Area**

<b>(a) HTBAE: Disclosing test</b>	<b>Closed incidents (Total TB)</b>	<b>Closed incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	15	15	24.3	1	0	8
Skin testing - Risk	154	148	6.7	3	1	8
Skin testing - Routine	43	34	2.5	1	1	2
<b>Total</b>	<b>212</b>	<b>197</b>	<b>7.1</b>	<b>2</b>	<b>1</b>	<b>6</b>
<b>(b) HTBAW: Disclosing test</b>	<b>Closed incidents (Total TB)</b>	<b>Closed incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	29	28	6.3	1	0	7
Skin testing - Risk	203	197	17.2	7	3	20
Skin testing - Routine	45	38	4.5	2	1	6
<b>Total</b>	<b>277</b>	<b>263</b>	<b>14.0</b>	<b>5</b>	<b>2</b>	<b>15</b>
<b>(c) ITBAM: Disclosing test</b>	<b>Closed incidents (Total TB)</b>	<b>Closed incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	11	11	6.5	2	0	4
Skin testing - Risk	28	24	9.1	4	1	14
Skin testing - Routine	23	13	5.2	1	0	5
<b>Total</b>	<b>62</b>	<b>48</b>	<b>7.2</b>	<b>3</b>	<b>1</b>	<b>8</b>

<b>(d) ITBAN: Disclosing test</b>	<b>Closed incidents (Total TB)</b>	<b>Closed incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	2	2	13.5	14	13	14
Skin testing - Risk	35	34	14.8	7	4	17
Skin testing - Routine	13	8	5.8	2	1	10
<b>Total</b>	<b>50</b>	<b>44</b>	<b>12.4</b>	<b>6</b>	<b>2</b>	<b>17</b>

<b>(e) LTBA: Disclosing test</b>	<b>Closed incidents (Total TB)</b>	<b>Closed incidents (OTFW)</b>	<b>Mean number of reactors (Total TB)</b>	<b>Median number of reactors (Total TB)</b>	<b>25<sup>th</sup> percentile (Total TB)</b>	<b>75<sup>th</sup> percentile (Total TB)</b>
Slaughterhouse inspection	4	4	4.8	5	0	6
Skin testing - Risk	7	6	4.4	2	1	6
Skin testing - Routine	30	14	2.1	1	1	3
<b>Total</b>	<b>41</b>	<b>24</b>	<b>2.8</b>	<b>1</b>	<b>1</b>	<b>4</b>

<sup>1</sup>Inter-quartile range

**Appendix Table 8 (related to chapter 4.7): TB incidents disclosed in cattle moved into a herd (out of herd, or out of home-range<sup>1</sup> genotypes, 2020**

<b>TB Area</b>	<b>OTF-W incidents</b>	<b>Incidents with genotype<sup>2</sup></b>	<b>In Home Range<sup>2</sup> (%)</b>	<b>Outside Home Range<sup>3</sup> (%)</b>	<b>Within 10km of Home Range (%)</b>	<b>In And Outside Home Range (%)</b>	<b>No Home Range Data<sup>4</sup> (%)</b>
HTBAE	197	136	109 (80.1)	13 (9.6)	12 (8.8)	0 (0)	2 (1.5)
HTBAW	295	145	129 (89)	8 (5.5)	3 (2.1)	0 (0)	5 (3.4)
ITBAM	59	31	15 (48.4)	8 (25.8)	7 (22.6)	0 (0)	1 (3.2)
ITBAN	37	14	12 (85.7)	2 (14.3)	0 (0)	0 (0)	0 (0)
LTBA	18	9	0 (0)	7 (77.8)	1 (11.1)	0 (0)	1 (11.1)
Wales Total	606	335	265 (79.1)	38 (11.3)	23 (6.9)	0 (0)	9 (2.7)

<sup>1</sup>The home ranges were based on data from 2015-2020.

**Appendix Table 9 (related to chapter 4.7): Incidents disclosed by trace, pre-movement, post-movement and contiguous testing, 2020 by TB Area**

TB Area	Surveillance Stream	Test Type <sup>1</sup>	Number of surveillance tests (per 1,000 animals)	Total TB incidents	Incidents per 1,000 animal tests (Total TB)	Total IRs (Total TB)	OTF-W incidents	Incidents per 1,000 animal tests (OTF-W)	Total IRs (OTF-W)
<b>HTBAE</b>	Area & Herd Risk	CON	63.0	60	1.0	22	60	1.0	22
	Area & Herd Risk	CON 6	0.4	1	2.6	0	1	2.6	0
	Area & Herd Risk	CON12	33.8	27	0.8	3	25	0.7	2
	Area & Herd Risk	TR	2.2	4	1.9	0	4	1.9	0
	Trade	POSTMT	0.0	0	0.0	0	0	0.0	0
	Trade	PRMT	45.1	17	0.4	1	15	0.3	1
<b>HTBAW</b>	Area & Herd Risk	CON	117.6	50	0.4	12	50	0.4	12
	Area & Herd Risk	CON 6	0.1	0	0.0	0	0	0.0	0
	Area & Herd Risk	CON12	57.3	31	0.5	13	27	0.5	11
	Area & Herd Risk	TR	3.1	2	0.7	0	2	0.7	0
	Trade	POSTMT	0.0	0	0.0	0	0	0.0	0
	Trade	PRMT	44.3	18	0.4	1	15	0.3	1
<b>ITBAM</b>	Area & Herd Risk	CON	19.4	9	0.5	3	8	0.4	2
	Area & Herd Risk	CON12	16.5	5	0.3	1	4	0.2	1
	Area & Herd Risk	TR	1.0	0	0.0	0	0	0.0	0
	Trade	POSTMT	0.1	0	0.0	0	0	0.0	0
	Trade	PRMT	28.2	4	0.1	1	3	0.1	0
<b>ITBAN</b>	Area & Herd Risk	CON	12.4	9	0.7	3	9	0.7	3
	Area & Herd Risk	CON 6	20.9	10	0.5	2	10	0.5	2
	Area & Herd Risk	CON12	10.0	5	0.5	0	5	0.5	0
	Area & Herd Risk	TR	0.6	0	0.0	0	0	0.0	0
	Trade	POSTMT	0.2	0	0.0	0	0	0.0	0
	Trade	PRMT	13.0	2	0.2	0	2	0.2	0
<b>LTBA</b>	Area & Herd Risk	CON	15.9	7	0.4	2	6	0.4	2
	Area & Herd Risk	CON6	0.1	0	0.0	0	0	0.0	0
	Area & Herd Risk	CON12	10.7	1	0.1	1	1	0.1	1
	Area & Herd Risk	TR	1.2	3	2.5	0	3	2.5	0

<b>TB Area</b>	<b>Surveillance Stream</b>	<b>Test Type<sup>1</sup></b>	<b>Number of surveillance tests (per 1,000 animals)</b>	<b>Total TB incidents</b>	<b>Incidents per 1,000 animal tests (Total TB)</b>	<b>Total IRs (Total TB)</b>	<b>OTF-W incidents</b>	<b>Incidents per 1,000 animal tests (OTF-W)</b>	<b>Total IRs (OTF-W)</b>
	Trade	POSTMOVNC	0.0	0	0.0	0	0	0.0	0
	Trade	POSTMT	10.4	1	0.1	0	1	0.1	0
	Trade	PRMT	3.8	2	0.5	0	2	0.5	0

<sup>1</sup> A description of each test type is found in Appendix Table 2

**Appendix Table 10 (related to chapter 4.8): Incident and non-incident herds by TB history and TB Area, 2020**

**a) HTBAE**

TB status in current period	No previous incidents (a)	Any incident Number (b)	Any incident % $(b/(a+b) \times 100)$	$\geq 1$ OTF-W incidents Number (c)	$\geq 1$ OTF-W incidents % $(c/(a+b) \times 100)$	OTF-S incidents only Number (d)	OTF-S incidents only % $(d/(a+b) \times 100)$
OTF herds <sup>1</sup>	1,948	517	21	478	19	39	2
Any new TB incident	121	74	38	71	36	3	2
OTF-W herds	110	74	40	71	39	3	2
OTF-S herds	11	0	0	0	0	0	0
Total herds	2,069	591	22	549	21	42	2

**b) HTBAW**

TB status in current period	No previous incidents (a)	Any incident Number (b)	Any incident % $(b/(a+b) \times 100)$	$\geq 1$ OTF-W incidents Number (c)	$\geq 1$ OTF-W incidents % $(c/(a+b) \times 100)$	OTF-S incidents only Number (d)	OTF-S incidents only % $(d/(a+b) \times 100)$
OTF herds <sup>1</sup>	2,128	522	20	485	18	37	1
Any new TB incident	121	126	51	121	49	5	2
OTF-W herds	108	125	54	120	52	5	2

OTF-S herds	13	1	7	1	7	0	0
Total herds	2,249	648	22	606	21	42	1

### c) ITBAM

TB status in current period	No previous incidents (a)	Any incident Number (b)	Any incident % (b/(a+b) x100)	≥ 1 OTF-W incidents Number (c)	≥ 1 OTF-W incidents % (c/(a+b)x100)	OTF-S incidents only Number (d)	OTF-S incidents only % (d/(a+b)x100)
OTF herds <sup>1</sup>	1,796	131	7	99	5	32	2
Any new TB incident	33	14	30	12	26	2	4
OTF-W herds	21	13	38	12	35	1	3
OTF-S herds	12	1	8	0	0	1	8
Total herds	1,829	145	7	111	6	34	2

### d) ITBAN

TB status in current period	No previous incidents (a)	Any incident Number (b)	Any incident % (b/(a+b) x100)	≥ 1 OTF-W incidents Number (c)	≥ 1 OTF-W incidents % (c/(a+b)x100)	OTF-S incidents only Number (d)	OTF-S incidents only % (d/(a+b)x100)
OTF herds <sup>1</sup>	723	88	11	70	9	18	2
Any new TB incident	27	27	50	23	43	4	7



OTF-W herds	24	25	51	23	47	2	4
OTF-S herds	3	2	40	0	0	2	40
Total herds	750	115	13	93	11	22	3

**e) LTBA**

OTF status in current period	No previous incidents (a)	Any incident Number (b)	Any incident % (b/(a+b) x100)	≥ 1 OTF-W incidents Number (c)	≥ 1 OTF-W incidents % (c/(a+b)x100)	OTF-S incidents only Number (d)	OTF-S incidents only % (d/(a+b) x100)
OTF herds <sup>1</sup>	2,672	59	2	38	1	21	1
Any new TB incident	47	4	8	3	6	1	2
OTF-W herds	30	4	12	3	9	1	3
OTF-S herds	17	0	0	0	0	0	0
Total herds	2,719	63	2	41	1	22	1

<sup>1</sup> Whether a herd was active in the History Period was not checked

<sup>2</sup> A herd was classified as OTF in 2019 if it did not suffer a new TB incident in 2019 or was under movement restrictions due to a previous TB incident for less than four months of 2019, and thus had the potential to have a recurrent incident later in the Current period. Herds under restriction for four or more months of 2019 due to an incident that started before 2019, were excluded from analyses (n=435)

**Appendix Table 11 (related to chapter 5.4): Duration of movement restrictions for TB incidents that closed in 2020 (and number of persistent incidents open in 2020)**

TB Area		Total (% of total)	OTF-W (% of total)	OTF-S (% of total)
HTBAE	Total number of incidents closed	212	197	15
	Up to 100 days	8 (3.8)	0	8 (53.3)
	101 - 150 days	28 (13.2)	22 (11.2)	6 (40.0)
	151 - 240 days	98 (46.2)	97 (49.2)	1 (6.7)
	241 - 550 days	68 (32.1)	68 (34.5)	0
	551 plus days	10 (4.7)	10 (5.1)	0
	Persistent incidents open	29	29	0
HTBAW	Total number of incidents closed	277	263	14
	Up to 100 days	6 (2.2)	0	6 (42.9)
	101 - 150 days	23 (8.3)	18 (6.8)	5 (35.7)
	151 - 240 days	79 (28.5)	76 (28.9)	3 (21.4)
	241 - 550 days	141 (50.9)	141 (53.6)	0
	551 plus days	28 (10.1)	28 (10.6)	0
	Persistent incidents open	101	100	1
ITBAM	Total number of incidents closed	62	48	14
	Up to 100 days	5 (8.1)	0	5 (35.7)
	101 - 150 days	11 (17.7)	5 (10.4)	6 (42.9)
	151 - 240 days	13 (21.0)	11 (22.9)	2 (14.3)
	241 - 550 days	31 (50.0)	30 (62.5)	1 (7.1)
	551 plus days	2 (3.2)	2 (4.2)	0
	Persistent incidents open	4	4	0
ITBAN	Total number of incidents closed	50	44	6
	Up to 100 days	4 (8.0)	0	4 (66.7)
	101 - 150 days	1 (2.0)	1 (2.3)	0
	151 - 240 days	11 (22.0)	10 (22.7)	1 (16.7)
	241 - 550 days	28 (56.0)	27 (61.4)	1 (16.7)
	551 plus days	6 (12.0)	6 (13.6)	0
	Persistent incidents open	13	13	0
LTBA	Total number of incidents closed	41	24	17
	Up to 100 days	12 (29.3)	1 (4.2)	11 (64.7)
	101 - 150 days	11 (26.8)	5 (20.8)	6 (35.3)
	151 - 240 days	8 (19.5)	8 (33.3)	0
	241 - 550 days	9 (22.0)	9 (37.5)	0
	551 plus days	1 (2.4)	1 (4.2)	0
	Persistent incidents open	1	1	0

**Appendix Table 12 (related to chapter 5.6): Total number of persistent TB incidents (closed, ongoing and new) and new recurrent incidents (2015-2020)**

<b>Year</b>	<b>Persistent Closed</b>	<b><i>Persistent Ongoing</i></b>	<b><i>New Persistent</i></b>	<b><i>New Recurrent</i></b>
2015	40	54	145	112
2016	59	79	200	110
2017	59	82	177	108
2018	44	108	212	108
2019	39	140	197	101
2020	47	148	206	94

**Appendix Table 13 (related to chapter 6.1): Lesion status of animals slaughtered in 2019, by TB Area**

(a) HTBAE	Total	Lesion status not recorded	DL % of Total <sup>1</sup>	DL <i>M.bovis</i> +ve % <sup>2</sup>	DL Pending or not cultured	NDL % of Total	NDL <i>M.bovis</i> +ve % <sup>3</sup>	NDL Pending or not cultured
<b>1. Direct contacts (DC)</b>	<b>102</b>	<b>0</b>	<b>8.8%</b>	<b>66.7%</b>	<b>6</b>	<b>91.2%</b>	<b>0.0%</b>	<b>75</b>
<b>2. Inconclusive reactors (IR)</b>	<b>175</b>	<b>3</b>	<b>4.1%</b>	<b>75.0%</b>	<b>3</b>	<b>95.9%</b>	<b>0.0%</b>	<b>108</b>
After 1 test as IR	103	3	4.0%	100.0%	2	96.0%	0.0%	76
After 2 tests as IR	46	0	6.5%	50.0%	1	93.5%	0.0%	9
After 3 tests as IR	26	0	0.0%	0.0%	0	100.0%	0.0%	23
<b>3. Reactors (R)</b>	<b>1,889</b>	<b>0</b>	<b>26.2%</b>	<b>95.6%</b>	<b>291</b>	<b>73.8%</b>	<b>3.9%</b>	<b>1033</b>
Antibody	108	0	0.0%	0.0%	0	100.0%	0.0%	92
IFN-gamma positive	447	0	6.0%	70.0%	17	94.0%	2.4%	336
At standard interpretation	974	0	43.1%	97.1%	245	56.9%	6.9%	380
At severe interpretation <sup>4</sup>	360	0	13.1%	94.4%	29	86.9%	0.0%	225
<b>TOTAL of items 1, 2, and 3</b>	<b>2,166</b>	<b>3</b>	<b>23.6%</b>	<b>94.8%</b>	<b>300</b>	<b>76.4%</b>	<b>3.2%</b>	<b>1216</b>
(b) HTBAW	Total	Lesion status not recorded	DL % of Total <sup>1</sup>	DL <i>M.bovis</i> +ve % <sup>2</sup>	DL Pending or not cultured	NDL % of Total	NDL <i>M.bovis</i> +ve % <sup>3</sup>	NDL Pending or not cultured
<b>1. Direct contacts (DC)</b>	<b>260</b>	<b>0</b>	<b>3.1%</b>	<b>0.0%</b>	<b>5</b>	<b>96.9%</b>	<b>0.0%</b>	<b>203</b>
<b>2. Inconclusive reactors (IR)</b>	<b>863</b>	<b>0</b>	<b>1.9%</b>	<b>70.0%</b>	<b>6</b>	<b>98.1%</b>	<b>0.4%</b>	<b>615</b>
After 1 test as IR	630	0	1.3%	60.0%	3	98.7%	0.8%	495

After 2 tests as IR	144	0	4.9%	100.0%	3	95.1%	0.0%	67
After 3 tests as IR	89	0	1.1%	0.0%	0	98.9%	0.0%	53
<b>3. Reactors (R)</b>	<b>5,302</b>	<b>17</b>	<b>8.2%</b>	<b>92.3%</b>	<b>239</b>	<b>91.8%</b>	<b>1.0%</b>	<b>3,385</b>
Antibody	411	1	0.0%	100.0%	0	99.8%	0.0%	322
IFN-gamma positive	1,830	3	3.2%	92.3%	45	96.8%	0.0%	1,380
At standard interpretation	1,580	9	20.4%	92.9%	166	79.6%	2.1%	763
At severe interpretation <sup>4</sup>	1,481	4	3.6%	88.0%	28	96.4%	0.8%	920
<b>TOTAL of items 1, 2, and 3</b>	<b>6,425</b>	<b>17</b>	<b>7.1%</b>	<b>89.8%</b>	<b>250</b>	<b>92.9%</b>	<b>0.9%</b>	<b>4,203</b>
(d) ITBAM	Total	Lesion status not recorded	DL % of Total <sup>1</sup>	DL <i>M.bovis</i> +ve % <sup>2</sup>	DL Pending or not cultured	NDL % of Total	NDL <i>M.bovis</i> +ve % <sup>3</sup>	NDL Pending or not cultured
<b>1. Direct contacts (DC)</b>	<b>49</b>	<b>0</b>	<b>4.1%</b>	<b>100.0%</b>	<b>1</b>	<b>95.9%</b>	<b>0.0%</b>	<b>45</b>
<b>2. Inconclusive reactors (IR)</b>	<b>43</b>	<b>1</b>	<b>7.1%</b>	<b>100.0%</b>	<b>1</b>	<b>92.9%</b>	<b>9.1%</b>	<b>28</b>
After 1 test as IR	28	1	7.4%	100.0%	1	92.6%	0.0%	24
After 2 tests as IR	13	0	7.7%	100.0%	0	92.3%	11.1%	3
After 3 tests as IR	2	0	0.0%	0.0%	0	100.0%	0.0%	1
<b>3. Reactors (R)</b>	<b>482</b>	<b>7</b>	<b>17.1%</b>	<b>90.0%</b>	<b>51</b>	<b>82.9%</b>	<b>0.0%</b>	<b>228</b>
Antibody	16	0	0.0%	0.0%	0	100.0%	0.0%	8
IFN-gamma positive	182	0	10.4%	50.0%	17	89.6%	0.0%	109
At standard interpretation	174	4	33.5%	92.3%	31	66.5%	0.0%	47

At severe interpretation <sup>4</sup>	110	3	4.7%	100.0%	3	95.3%	0.0%	64
<b>TOTAL of items 1, 2, and 3</b>	<b>574</b>	<b>8</b>	<b>15.2%</b>	<b>90.9%</b>	<b>53</b>	<b>84.8%</b>	<b>0.6%</b>	<b>301</b>
(c) ITBAN	Total	Lesion status not recorded	DL % of Total <sup>1</sup>	DL <i>M.bovis</i> +ve % <sup>2</sup>	DL Pending or not cultured	NDL % of Total	NDL <i>M.bovis</i> +ve % <sup>3</sup>	NDL Pending or not cultured
<b>1. Direct contacts (DC)</b>	<b>69</b>	<b>0</b>	<b>13.0%</b>	<b>66.7%</b>	<b>6</b>	<b>87.0%</b>	<b>0.0%</b>	<b>56</b>
<b>2. Inconclusive reactors (IR)</b>	<b>131</b>	<b>2</b>	<b>4.7%</b>	<b>50.0%</b>	<b>0</b>	<b>95.3%</b>	<b>3.1%</b>	<b>91</b>
After 1 test as IR	95	2	4.3%	25.0%	0	95.7%	0.0%	76
After 2 tests as IR	20	0	10.0%	100.0%	0	90.0%	10.0%	8
After 3 tests as IR	16	0	0.0%	0.0%	0	100.0%	0.0%	7
<b>3. Reactors (R)</b>	<b>996</b>	<b>2</b>	<b>11.7%</b>	<b>76.9%</b>	<b>77</b>	<b>88.3%</b>	<b>3.8%</b>	<b>666</b>
Antibody	110	1	0.0%	0.0%	0	100.0%	0.0%	98
IFN-gamma positive	487	1	6.2%	50.0%	24	93.8%	0.0%	361
At standard interpretation	242	0	26.9%	88.5%	39	73.1%	12.3%	112
At severe interpretation <sup>4</sup>	157	0	13.4%	57.1%	14	86.6%	0.0%	95
<b>TOTAL of items 1, 2, and 3</b>	<b>1,196</b>	<b>4</b>	<b>11.0%</b>	<b>72.9%</b>	<b>83</b>	<b>89.0%</b>	<b>3.6%</b>	<b>813</b>
(e) LTBA	Total	Lesion status not recorded	DL % of Total <sup>1</sup>	DL <i>M.bovis</i> +ve % <sup>2</sup>	DL Pending or not cultured	NDL % of Total	NDL <i>M.bovis</i> +ve % <sup>3</sup>	NDL Pending or not cultured
<b>1. Direct contacts (DC)</b>	<b>31</b>	<b>0</b>	<b>3.2%</b>	<b>0.0%</b>	<b>0</b>	<b>96.8%</b>	<b>6.3%</b>	<b>14</b>
<b>2. Inconclusive reactors (IR)</b>	<b>28</b>	<b>0</b>	<b>3.6%</b>	<b>100.0%</b>	<b>0</b>	<b>96.4%</b>	<b>0.0%</b>	<b>10</b>

After 1 test as IR	14	0	0.0%	0.0%	0	100.0%	0.0%	7
After 2 tests as IR	14	0	7.1%	100.0%	0	92.9%	0.0%	3
After 3 tests as IR	0	0	0.0%	0.0%	0	0.0%	0.0%	0
<b>3. Reactors (R)</b>	<b>261</b>	<b>0</b>	<b>20.3%</b>	<b>90.0%</b>	<b>13</b>	<b>79.7%</b>	<b>0.0%</b>	<b>113</b>
Antibody	2	0	0.0%	0.0%	0	100.0%	#0.0%	2
IFN-gamma positive	103	0	9.7%	57.1%	3	90.3%	0.0%	57
At standard interpretation	112	0	37.5%	97.0%	9	62.5%	0.0%	33
At severe interpretation <sup>4</sup>	44	0	2.3%	0.0%	1	97.7%	0.0%	21
<b>TOTAL of items 1, 2, and 3</b>	<b>320</b>	<b>0</b>	<b>17.2%</b>	<b>88.1%</b>	<b>13</b>	<b>82.8%</b>	<b>0.8%</b>	<b>137</b>

<sup>1</sup>The denominator for the percentage is the sum of the number of animals with detected lesions (DL) and those without (NDL). Animals whose “lesion status was not recorded” have been disregarded.

<sup>2</sup>The denominator for the percentage is the number with DLs that were cultured.

<sup>3</sup>The denominator for the percentage is the number without DLs, where recorded, that were cultured.

<sup>4</sup>These include *all* animals recorded as reactors irrespective of skin test measurements (i.e. it will include animals classified as a reactor during a TB incident because of oedema at the site of injection of bovine tuberculin), and also includes bovines classified as a reactor on the basis of severe interpretation of the skin test.

**Appendix Table 14 (related to chapter 7.2): TB incidents in the fifteen months subsequent to tests in which only inconclusive reactors were found, and TB incidents in the fifteen months following a clear whole herd test, 2020**

	IR-only herds with retest <sup>1</sup>	Total TB incidents at retest (%)	OTF-W incidents at retest (%)	Herds clear at retest with subsequent WHT	Total TB incidents at subsequent WHT (%)	OTF-W incidents at subsequent WHT (%)	Clear herds with a subsequent test <sup>1</sup>	Total TB incidents at subsequent test (%)	OTF-W incidents at subsequent test (%)
<b>Herd size</b>									
1-10	25	3 (12)	0 (0)	20	0 (0)	0 (0)	1,265	9 (0.7)	7 (0.6)
11-50	153	11 (7.2)	8 (5.2)	136	9 (6.6)	8 (5.9)	3,110	79 (2.5)	68 (2.2)
51-100	215	38 (17.7)	27 (12.6)	173	23 (13.3)	20 (11.6)	1,887	89 (4.7)	79 (4.2)
101-200	226	29 (12.8)	28 (12.4)	192	28 (14.6)	24 (12.5)	1,390	100 (7.2)	88 (6.3)
201-300	107	19 (17.8)	14 (13.1)	88	16 (18.2)	15 (17)	470	45 (9.6)	41 (8.7)
>300	130	26 (20)	26 (20)	104	33 (31.7)	32 (30.8)	470	75 (16)	72 (15.3)
<b>Type</b>									
Beef	492	72 (14.6)	53 (10.8)	405	45 (11.1)	39 (9.6)	6,909	253 (3.7)	222 (3.2)
Dairy	356	53 (14.9)	50 (14)	301	63 (20.9)	60 (19.9)	1,500	137 (9.1)	127 (8.5)
Other/mixed	8	1 (12.5)	0 (0)	7	1 (14.3)	0 (0)	183	7 (3.8)	6 (3.3)
<b>TB Area</b>									



HTBAE	191	41 (21.5)	33 (17.3)	147	26 (17.7)	22 (15)	2,077	149 (7.2)	143 (6.9)
HTBAW	392	50 (12.8)	48 (12.2)	336	63 (18.8)	60 (17.9)	2,099	137 (6.5)	127 (6.1)
ITBAM	146	22 (15.1)	13 (8.9)	50	6 (12)	5 (10)	1,538	28 (1.8)	22 (1.4)
ITBAN	56	5 (8.9)	5 (8.9)	119	11 (9.2)	10 (8.4)	682	40 (5.9)	36 (5.3)
LTBA	71	8 (11.3)	4 (5.6)	61	3 (4.9)	2 (3.3)	2,196	43 (2)	27 (1.2)
<b>Total</b>	<b>856</b>	<b>126 (14.7)</b>	<b>103 (12)</b>	<b>713</b>	<b>109 (15.3)</b>	<b>99 (13.9)</b>	<b>8,592</b>	<b>397 (4.6)</b>	<b>355 (4.1)</b>

<sup>1</sup> Only herds that had a whole herd test are included here as those with clear animal level tests cannot be guaranteed free of TB infection

## Appendix 2. Test type frequency

**Appendix Table 15: Number of surveillance tests (herds not under restriction), reactors and resulting incidents and the number of disease control tests taken in herds under restriction**

Test type <sup>1</sup>	Surveillance tests <sup>2</sup> No. Tests	Surveillance tests <sup>2</sup> Reactors	Surveillance tests <sup>2</sup> TB incidents	Disease control tests <sup>3</sup> No. tests
<b>Routine</b>	<b>458,501</b>	<b>352</b>	<b>161</b>	<b>0</b>
WHT	425,040	284	144	0
IA6	18,436	31	10	0
IA12	15,025	37	7	0
<b>Herd Risk</b>	<b>171,041</b>	<b>380</b>	<b>113</b>	<b>1,901</b>
12M	45,240	98	30	0
6M	125,801	282	83	1,901
<b>Area Risk</b>	<b>378,164</b>	<b>720</b>	<b>215</b>	<b>1,361</b>
CON	228,299	479	135	852
CON12	128,343	218	69	130
CON6	21,522	23	11	379
<b>Movement Risk</b>	<b>9,595</b>	<b>12</b>	<b>10</b>	<b>329</b>
<b>1</b>				
TR	7,939	11	9	161
EX	3	0	0	0
AI	40	0	0	0
PII	1,613	1	1	168
<b>Movement Risk</b>	<b>146,648</b>	<b>80</b>	<b>44</b>	<b>25</b>
<b>2</b>				
POSTMOV OV	10,671	1	1	25
POSTMT	6	0	0	0
PRI	1,444	0	0	0
PRMT	134,527	79	43	0
<b>Inconclusive reactors</b>	<b>1,339</b>	<b>0</b>	<b>0</b>	<b>1,192</b>
IR	1,337	0	0	135
IFN_2X_IR	2	0	0	1,057
<b>Slaughterhouse</b>	<b>194,232</b>	<b>0</b>	<b>64</b>	<b>43,878</b>
SLH	194,232	0	64	43,878
<b>New Herds</b>	<b>7,092</b>	<b>5</b>	<b>2</b>	<b>0</b>
CT-NH1	6,823	5	2	0
CT-NH2	269	0	0	0
<b>Control</b>	<b>19,458</b>	<b>52</b>	<b>5</b>	<b>739,012</b>

Test type <sup>1</sup>	Surveillance tests <sup>2</sup> No. Tests	Surveillance tests <sup>2</sup> Reactors	Surveillance tests <sup>2</sup> TB incidents	Disease control tests <sup>3</sup> No. tests
SI	1,964	0	0	606,539
CT(I-I)	13,161	13	2	76,245
CT(EM)	2,534	16	2	12
IFN_LOW_IN	58	1	0	16,995
IFN_NSR	0	0	0	31
IFN_PERSI	74	22	1	23,184
IFN_SLHERD	0	0	0	1,172
TBU	1,667	0	0	2,935
ANTIBODY	0	0	0	3,566
IFN_BOV_OTH	0	0	0	5,857
IFN_FLEX	0	0	0	2,476
ANTIBODYSEVI R	0	0	0	2,490
ANTIBODYSEVI REXIT	0	0	0	191
IFN_SEVEREIR	0	0	0	2,375
IFN_SEVEREIRE XIT	0	0	0	249
<b>Other</b>	<b>805</b>	<b>0</b>	<b>0</b>	<b>0</b>
VE-ASG	805	0	0	0

<sup>1</sup> Refer to Appendix table 2 for an explanation of these codes

<sup>2</sup> Animal-level tests done in herds not under movement restrictions

<sup>3</sup> Animals-level tests done in herds under movement restrictions

<sup>4</sup> Figure derived from the number of animals slaughtered from herds that were not under restriction.

## Appendix 3. The number of herds, incidents, herds under restriction and cattle slaughtered for different reasons relating to TB control (2008-2020)

Appendix Table 16: The number of herds, incidents, herds under restriction and cattle slaughtered for different reasons relating to TB control between 2008 and 2020

### a) HTBAE

Year	Number of herds	Total TB incidents	OTF-W incidents	Herds under restriction <sup>1</sup>	Inconclusive reactors slaughtered <sup>2</sup>	Reactors slaughtered <sup>2</sup>	Direct contacts slaughtered <sup>2</sup>
2008	3386	434	250	313	111	2684	174
2009	3253	423	254	222	259	2656	74
2010	3214	384	247	251	203	2071	59
2011	3223	367	277	252	167	2026	321
2012	3202	358	281	273	181	2313	161
2013	3174	295	249	182	156	1443	80
2014	2946	325	283	213	107	1988	121
2015	2801	275	241	163	148	1801	114
2016	2770	260	232	178	135	1629	186
2017	2737	299	278	231	319	1898	216
2018	2862	251	231	205	352	1684	199
2019	2806	211	197	177	356	1464	231
2020	2760	201	189	162	175	1889	102

### b) HTBAW

Year	Number of herds	Total TB incidents	OTF-W incidents	Herds under restriction <sup>1</sup>	Inconclusive reactors slaughtered <sup>2</sup>	Reactors slaughtered <sup>2</sup>	Direct contacts slaughtered <sup>2</sup>
2008	3890	574	303	499	152	6400	831
2009	3669	519	218	412	848	6017	467
2010	3625	434	199	374	611	3572	159
2011	3546	451	337	405	662	3983	124
2012	3533	518	439	492	746	4973	135
2013	3515	385	339	331	654	3086	73
2014	3358	355	330	284	422	2559	235
2015	3243	405	365	357	606	4209	340
2016	3236	319	307	307	652	5147	818
2017	3293	330	314	331	1289	4454	954
2018	3251	332	308	356	2223	4970	482
2019	3185	308	295	350	2459	5530	520

2020	3128	253	239	320	863	5302	260
------	------	-----	-----	-----	-----	------	-----

c) ITBAM

Year	Number of herds	Total TB incidents	OTF-W incidents	Herds under restriction <sup>1</sup>	Inconclusive reactors slaughtered <sup>2</sup>	Reactors slaughtered <sub>2</sub>	Direct contacts slaughtered <sub>2</sub>
2008	2331	118	41	65	9	645	35
2009	2217	131	45	65	88	704	40
2010	2178	115	39	60	74	512	22
2011	2190	105	42	50	47	406	7
2012	2175	84	37	44	51	324	18
2013	2163	78	45	40	39	251	5
2014	2062	65	45	28	36	255	44
2015	1992	75	44	42	33	359	29
2016	1991	51	41	36	31	572	132
2017	2089	68	49	40	47	365	16
2018	2048	60	49	43	46	525	34
2019	2038	75	59	52	58	538	46
2020	2005	48	35	40	43	462	39

d) ITBAN

Year	Number of herds	Total TB incidents	OTF-W incidents	Herds under restriction <sup>1</sup>	Inconclusive reactors slaughtered <sup>2</sup>	Reactors slaughtered <sub>2</sub>	Direct contacts slaughtered <sub>2</sub>
2008	1101	49	23	26	8	251	14
2009	1078	70	21	25	47	259	3
2010	1042	60	16	18	36	213	
2011	1022	71	40	32	31	237	6
2012	1004	80	43	42	58	438	9
2013	998	64	31	37	56	303	16
2014	951	60	36	27	34	445	97
2015	921	44	26	19	26	443	3
2016	921	38	34	29	17	483	16
2017	1183	63	49	39	58	642	34
2018	953	67	58	49	118	551	36
2019	920	45	37	52	191	934	78
2020	904	60	55	63	131	996	69

e) LTBA

Year	Number of herds	Total TB incidents	OTF-W incidents	Herds under restriction <sup>1</sup>	Inconclusive reactors slaughtered <sup>2</sup>	Reactors slaughtered <sub>2</sub>	Direct contacts slaughtered <sub>2</sub>
2008	3086	17	9	10	2	66	
2009	2999	49	15	10	42	161	8
2010	2925	43	6	8	20	70	
2011	2875	62	7	14	27	88	3
2012	2848	45	14	14	36	66	4
2013	2838	47	12	19	22	68	6
2014	2752	38	14	15	15	142	3

Year	Number of herds	Total TB incidents	OTF-W incidents	Herds under restriction <sup>1</sup>	Inconclusive reactors slaughtered <sup>2</sup>	Reactors slaughtered <sup>2</sup>	Direct contacts slaughtered <sup>2</sup>
2015	2719	34	11	11	13	115	2
2016	2733	39	16	16	23	263	1
2017	2676	28	17	15	18	75	2
2018	2841	34	21	21	15	229	9
2019	2826	23	18	17	66	122	6
2020	2792	52	34	30	28	261	31

<sup>1</sup> The number of herds under movement restrictions in the middle of December of each year. Excludes herds restricted due to an overdue test.

<sup>2</sup> The number of cattle slaughtered for different reasons within a year regardless of when the incident began. Data for previous years has been updated using the latest available source data, and so may differ from that presented in previous reports.

## Appendix 4. Duration between new TB incidents in 2020, and previous TB incidents in the last 24 months

Appendix Table 17: Time elapsed between the end of movement restrictions in the most recent TB incident in the history period and the start date of the first TB incident in the current period

Previous incident type <sup>1</sup>	2020 incident type <sup>2</sup>	Mean <sup>3</sup>	Median <sup>3</sup>	SD <sup>3</sup>	Min <sup>3</sup>	Max <sup>3</sup>
Any	Any	370	361	188	98	721
OTF-W	Any	370	363	188	98	721
OTF-S	Any	373	289	198	157	694
Any	OTF-W	371	363	188	98	721
OTF-W	OTF-W	371	365	187	98	721
OTF-S	OTF-W	377	289	202	157	694
Any <sup>4</sup>	OTF-S	279	182	223	120	534
OTF-W	OTF-S	120	120	-	120	120
OTF-S	OTF-S	358	358	249	182	534

<sup>1</sup> Any: The most recent incident in the history period regardless of whether OTF-S or OTF-W incident; OTF-W: the last incident where the last incident was OTF-W; OTF-S: the last incident where the last incident was OTF-S

<sup>2</sup> Any: OTF-S or OTF-W incident(s) in 2020; OTF-W: OTF-W incident(s) occurred at any time in 2020 (not necessarily the first); OTF-S: only OTF-S incident(s) occurred in 2020

<sup>3</sup> Time elapsed was calculated as the number of days between the end of the last incident and the start of the first new incident in 2020. Includes only recurrent incidents where the preceding incident ended between 1<sup>st</sup> January 2017 and the end of April 2020; If the first incident in 2020 was OTF-S but the herd subsequently had an OTF-W incident, the 2020 incident type is shown as OTF-W but the date of the first incident (OTF-S) is used to calculate the time elapsed.