



Monthly publication of National Statistics on the Incidence of Tuberculosis (TB) in Cattle to end August 2014 for Great Britain

These statistics were released today, Wednesday 12 November 2014 at 09:30, with the next notice to be updated on Wednesday 10 December 2014 at 09:30.

These statistics are obtained from the Animal and Plant Health Agency (APHA) work management IT support system (Sam), used for the administration of TB testing in GB. They are a snapshot of the position on the date on which the data were extracted. These statistics may be subject to regular revision until all test results are available. In particular figures from 2012 onwards will be subject to further revision as test and incident records are completed.

The key points relating to August 2014 are:-

- Short term changes in these statistics should be considered in the context of long term trends. The charts and tables in this statistical notice give the latest indication of how the trend in bovine TB incidence has changed since 1996.
- The provisional incidence rate for January to August 2014 is 3.9% compared to 4.3% for January to August 2013. However, care needs to be taken not to read too much into short term figures, especially as this figure includes a number of unclassified incidents. As such, the incidence rates are subject to further revisions as more tests and their results for the period are input.
- The number of new herd incidents during the period January to August 2014 was 3,017 compared to 3,137 for January to August 2013. The number of tests on officially TB free herds was 51,766 during January to August 2014, compared to 47,714 during January to August 2013.
- The number of cattle compulsorily slaughtered as reactors or direct contacts was 21,324 during January to August 2014, compared to 22,511 during January to August 2013.

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Figure 1: Herd incidence of bovine TB (bTB) in GB: number of new incidents of bTB leading to the withdrawal of officially TB free (OTF) herd status, as a percentage of tests carried out in OTF herds each month since 2003:

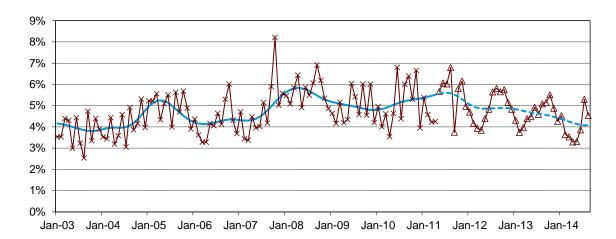
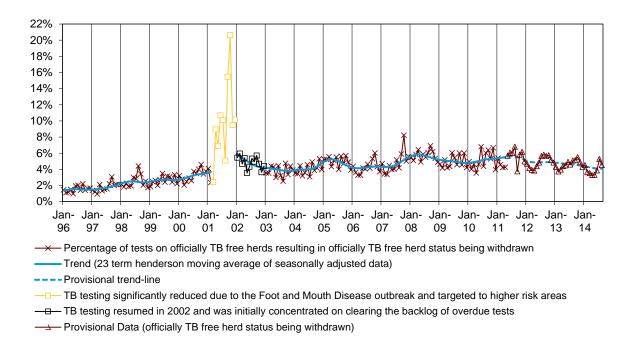


Figure 2: Herd incidence of bovine TB (bTB) in GB: number of new incidents of bTB leading to the withdrawal of officially TB free (OTF) herd status, as a percentage of tests carried out in OTF herds each month since 1996:



The charts published in this statistical notice, together with the equivalent figures from January 1996 onwards, are also available in spreadsheet format on the Defra web site at:- https://www.gov.uk/government/publications/incidence-of-tuberculosis-tb-in-cattle-in-great-britain. Visit the third link (MS Excel spreadsheet) entitled "Incidence of TB in cattle in Great Britain - GB dataset".

National trends

There has been an overall long-term upward trend in the incidence of TB in cattle herds in GB since the beginning of the time series presented in this statistical release although the incidence rate is lower now than it was at its peak in 2008.

An unusual spike in the incidence rate was observed during most of 2001. This was an anomaly caused by the suspension of TB testing during the foot and mouth disease (FMD) outbreak of February to October 2001. In the meantime, new bTB breakdowns continued to be detected on farms through routine post-mortem meat inspection of cattle carcases in abattoirs. Following the gradual resumption of herd testing after the 2001 FMD outbreak, a three-year cycle in the bTB herd incidence rate was observed (as shown in two figures above and in Table 1), with peaks in early 2005, early 2008 and in 2011 and troughs in 2006 and 2009.

There is no clear explanation for this pattern, because bTB is a multi-factorial and chronic disease with a complex epidemiology and reservoirs of infection in cattle and wildlife. As a result of surveillance and testing changes, there has been no stable time series until recently. For example there have been different herd testing frequencies in each parish over time, ranging from annual to four-yearly and changing every year until those frequencies were unified in Wales in 2010 (annual) and in England in 2013 (annual and four-yearly).

There are at least three possible explanations:

- 1. The smoothed trend represents true seasonal changes in the transmission risk and prevalence of infection in wildlife and cattle populations. However there is no strong evidence to support this.
- 2. After FMD higher risk herds were tested every 3 to 4 years and could have contributed to a cyclically higher incidence rate. However breakdowns in the 4-yearly (and formerly 3-yearly) testing areas represent a small and decreasing proportion of the breakdowns in any given year.
- 3. When testing resumed in 2002 following the 2001 FMD outbreak, high-risk herds may have been identified then put under restrictions and control tested for a period (when they cannot generate a new incident). Once the bTB incident has been resolved and OTF herd status is restored, the herd becomes susceptible to a new incident as it undergoes post-breakdown surveillance tests at 6 and 18 months after regaining OTF status.

Regional differences

The regional and county-level statistics published as part of this statistical notice show that there are considerable differences in the distribution and frequency of bovine TB across GB.

Scotland, which has officially TB-free (OTF) status, has very few breakdowns of the disease. The incidence of new TB breakdowns is very low and stable and is largely driven by sporadic introductions of disease into Scotland.

In Wales, TB prevalence varies across regions. The Central, South West and some areas in the South East regions have high levels of bovine TB whereas the regions in the North West and North East of Wales have relatively low levels. To attempt to contain the disease and prevent its spread into these lower-incidence regions, all herds in Wales are tested for the disease annually. The strategically-located Intensive Action Area (north Pembrokeshire and small parts of Ceredigion and Carmarthenshire, which fall within Dyfed in the statistical dataset) has one of the highest incidence rates of bovine TB in Wales. Here there are extra measures in place to control the disease, such as stricter cattle controls and improved biosecurity.

In England, there are wide geographical variations in the incidence of bTB. This is reflected in the division of the country into three different epidemiological areas, with different disease control strategies and herd testing regimes applied in each of them:

- In the Low Risk Area of the North, East and South East of England, the incidence of bTB is very low and stable and most cattle herds are routinely tested every four years. Similar to Scotland, the majority of breakdowns in the Low Risk Area can be linked to movements of undetected infected cattle from other areas of GB.
- In the Edge Area, which spans most of Cheshire, parts of the counties of Derbyshire,
 Warwickshire, Oxfordshire and East Sussex and the whole of Nottinghamshire, Leicestershire,
 Northamptonshire, Buckinghamshire and Hampshire, the herd incidence is higher than in the
 Low Risk Area, although this varies from county to county.
- In the *High Risk Area* of the West Midlands and South West of England, the incidence and prevalence of infected cattle have remained high for many years, thought to be partly a result of a reservoir of infection in the local wildlife.

TABLE 1: TB INCIDENTS IN GREAT BRITAIN - HERDS

		Number of cattle herds registered on Sam	Total tests on herds	Herds not Officially TB free due to a bovine TB incident (non-OTF Herds)	Tests on officially TB free herds (OTF)	New herd incidents (NHI)	NHI of which: officially TB free herd status withdrawn (OTFW)	Number of OTFW incidents as a percentage of tests on officially TB free herds
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
1996		na	36,314	1,589	34,812	1,075	490	1.4%
1997		na	34,065	1,632	32,295	1,195	540	1.7%
1998		na	37,046	2,077	34,502	1,514	787	2.3%
1999		na	41,365	2,374	38,338	1,661	967	2.5%
2000		na	40,669	2,482	37,184	1,738	1,135	3.1%
2001	*	na	13,187	1,697	11,118	802	571	5.2%
2002	**	na	49,709	4,167	43,641	3,323	2,042	4.7%
2003		na	56,208	5,460	47,568	3,214	1,789	3.8%
2004		na	56,836	5,220	49,027	3,341	1,934	4.0%
2005		na	55,887	5,669	46,725	3,665	2,308	4.9%
2006		na	64,457	5,859	56,051	3,530	2,303	4.1%
2007		na	64,145	6,582	54,856	4,188	2,546	4.7%
2008		na	66,432	7,935	54,854	5,011	3,093	5.6%
2009		na	72,205	8,386	58,894	4,599	2,847	4.9%
2010		83,636	74,474	7,964	61,587	4,723	3,013	4.9%
2011		80,426	76,659	8,243	62,489	4,912	3,112	5.2%
2012	(p)	79,251	88,577	8,947	73,652	5,144	3,467	4.8%
2013	(p)	79,287	86,847	9,094	72,182	4,816	3,254	4.5%
2014	(p)	78,614	61,520	6,892	51,766	3,017	2,013	3.9%
2012 Jan	(p)	80,383	8,194	4,287	6,995	484	325 - 332	4.6% - 4.7%
Feb	(p)	80,331	9,058	4,399	7,698	462	315 - 325	4.1% - 4.2%
Mar	(p)	80,203	11,718	4,596	10,283	591	400 - 408	3.9% - 4.0%
Apr	(p)	80,174	7,890	4,638	6,533	405	248 - 254	3.8% - 3.9%
May	(p)	79,986	7,304	4,678	5,991	446	259 - 267	4.3% - 4.5%
Jun	(p)	79,986	5,426	4,538	4,176	324	200 - 203	4.8% - 4.9%
Jul	(p)	79,857	5,068	4,462	3,865	315	217 - 219	5.6% - 5.7%
Aug	(p)	79,717	5,420	4,420	4,241	353	244 - 249	5.8% - 5.9%
Sep	(p)	79,604	5,882	4,372	4,743	367	265 - 271	5.6% - 5.7%
Oct	(p)	79,496	6,816	4,473	5,747	444	328 - 333	5.7% - 5.8%
Nov	(p)	79,350	9,066	4,597	7,682	558	392 <i>- 400</i>	5.1% - 5.2%
Dec	(p)	79,251	6,735	4,602	5,698	395	274 - 276	4.8% - 4.8%
2013 Jan	(p)	79,187	8,753	4,776	7,342	498	312 - 321	4.2% - 4.4%
Feb	(p)	79,188	9,005	4,788	7,562	399	281 - 284	3.7% - 3.8%
Mar	(p)	79,241	9,256	4,807	8,011	486	315 - 320	3.9% - 4.0%
Apr	(p)	79,354	8,082	4,790	6,608	424	287 - 293	4.3% - 4.4%
May	(p)	79,469	7,354	4,622	5,970	402	265 - 270	4.4% - 4.5%
Jun	(p)	79,553	5,088	4,402	3,947	323	192 - 197	4.9% - 5.0%
Jul	(p)	79,558	5,081	4,260	3,860	278	175 - 179	4.5% - 4.6%
Aug	(p)	79,538	5,551	4,126	4,414	327	223 - 226	5.1% - 5.1%
Sep	(p)	79,501	5,982	4,089	4,913	350	252 - 253	5.1% - 5.1%
Oct	(p)	79,511	7,273	4,154	6,207	473	340 - 344	5.5% - 5.5%
Nov	(p)	79,426	8,583	4,228	7,444	502	362 - 364	4.9% - 4.9%
Dec	(p)	79,287	6,839	4,224	5,904	354	250 - 253	4.2% - 4.3%
2014 Jan	(p)	79,111	9,678	4,407	8,119	532	367 - 368	4.5% - 4.5%
Feb	(p)	79,052	9,046	4,403	7,892	430	287 - 288	3.6% - 3.6%
Mar	(p)	78,756	9,580	4,425	8,447	443	296 - 300	3.5% - 3.6%
Apr	(p)	78,798	8,081	4,357	6,827	360	223 - 226	3.3% - 3.3%
May	(p)	78,837	8,305	4,212	6,946	373	228 - 231	3.3% - 3.3%
Jun	(p)	78,834	5,719	3,993	4,591	264	176 - 178	3.8% - 3.9%
Jul	(p)	78,638	5,731	3,916	4,532	321	237 - 243	5.2% - 5.4%
Aug	(p)	78,614	5,380	3,790	4,412	294	199 - 201	4.5% - 4.6%

Notes:- The data are a snapshot extracted from Sam. Data for 2012 onwards will remain provisional and subject to revision each month until all culture results are available and final data validation has been carried out. The herd incidence rates for the latest months are given as a range because a number of incidents are still unclassified, so data for these months should be treated as provisional results. TB incidents remain unclassified if at the end of the period covered by this notice they had not been designated OTFW, but were still ongoing and the herd could have its OTF status withdrawn if further testing revealed one or more animals with post-mortem evidence of TB.

- The number of herds registered on the APHA's Sam (computer) system monthly figures are not available (na) before December (1)
- (2) Herds for which tuberculin skin testing is carried out on at least one animal during the period shown. Does not include gamma tests. (same as column 1 in Table 2).
- Herds that had lost their OTF status at some time during the period shown due to a TB incident. (3)
- (4) (5) Any test carried out in an OTF herd during the period shown. Does not include gamma tests.
- Herds which were previously OTF but either had cattle that reacted to a tuberculin test or had a tuberculous animal disclosed by routine meat inspection at slaughter, during the period shown.
- New herd incidents (column 5) where OTF status was withdrawn from the herd. (6)
- Column 6 as a percentage of column 4. (7)
 - Data for 2001 are not comparable with other years. During the outbreak of Foot and Mouth Disease, TB testing was significantly reduced and necessarily targeted to areas of higher risk.
- Data for 2002 are not comparable with other years. Testing resources were concentrated on herds overdue their tests (because of the backlog caused by the Foot and Mouth Disease outbreak).
- (p) provisional

TABLE 2: TB INCIDENTS IN GREAT BRITAIN - ANIMALS

(1) (2) (3) (4) 1996 36,314 2,249,891 3,776 3,151 1997 34,065 2,170,630 3,384 3,017 1998 37,046 2,447,848 5,685 4,782 1999 41,365 2,25,177 6,754 5,794 2000 40,669 2,331,658 8,123 6,877 2001 - 13,187 1,181,861 6,156 5,200 2002 - 49,709 3,961,45 22,072 19,191 2003 56,208 4,474,526 23,972 20,798 2004 56,836 4,604,721 22,214 19,636 2005 55,887 4,611,699 29,231 25,627 2006 64,457 5,417,573 22,062 20,090 2007 64,145 5,753,244 26,862 25,330 2008 66,432 6,178,789 39,007 36,968 2009 72,205 6,840,668 37,979 36,739 2010 74,474 7,447,653 31,949 31,277 2011 76,659 7,587,837 34,238 33,453 2012 (p) 88,577 8,031,583 37,735 37,050 2013 (p) 86,847 8,393,375 32,620 31,723 2014 (p) 61,520 5,901,702 21,324 20,605 2012 Jan (p) 8,194 720,547 2,580 2,537 Ebb (p) 9,058 781,627 3,789 3,1744 Mar (p) 11,718 990,668 3,124 3,090 Apr (p) 7,890 722,230 2,805 2,774 May (p) 7,304 580,182 3,467 3,414 Jun (p) 5,426 491,656 2,527 2,461 Jul (p) 5,426 491,656 2,527 2,461 Nov (p) 9,068 847,238 2,939 3,884 Dec (p) 6,836 477,830 3,235 2,000 3,141 Feb (p) 9,055 844,288 2,999 2,864 Aug (p) 5,420 487,428 2,997 2,860 Apr (p) 8,735 771,202 3,200 3,141 Feb (p) 9,056 842,283 2,233 2,200 3,141 Jun (p) 5,088 482,595 2,035 2,004 Jul (p) 5,088 482,595 2,035 2,005 Dec (p) 6,839 705,441 2,399 2,355	Cattle compulsorily slaughtered as reactors or contacts:		
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2014 Jan (p) 9,678 998,883 2,923 2,883	40		
Feb (p) 9,046 863,564 3,001 2,868	133		
Mar (p) 9,580 880,822 2,896 2,847	49		
Apr (p) 8,081 798,334 2,866 2,747	119		
May (p) 8,305 717,241 2,724 2,690	34		
Jun (p) 5,719 546,137 2,653 2,447	206		
Jul (p) 5,731 578,774 2,320 2,205	115		
Aug (p) 5,380 517,947 1,941 1,918	23		

Notes: The data are a snapshot extracted from Sam. Data for 2012 onwards will remain provisional and subject to revision each month until all culture results are available and final data validation has been carried out.

⁽¹⁾ Herds for which tuberculin skin testing is carried out on at least one animal during the period shown. Does not include gamma tests. (same as column 2 in Table 1).

Count of the number of tests on cattle. An individual animal could be tested more than once in each time period.

⁽²⁾ (3) Animals compulsorily slaughtered because they reacted to the tuberculin skin test or because they were considered to be direct contacts (see below). Not all of these animals showed evidence of Mycobacterium bovis infection at post-mortem examination.

An animal which was compulsorily slaughtered because it responded to the tuberculin skin test in a way that was consistent with it (4) being infected with Mycobacterium bovis.

An animal in an OTFW incident that, although not a test reactor, was considered to have been exposed to Mycobacterium bovis and (5) compulsorily slaughtered.

Data for 2001 are not comparable with other years. During the outbreak of Foot and Mouth Disease, TB testing was significantly reduced and necessarily targeted to areas of higher risk.

Data for 2002 are not comparable with other years. Testing resources were concentrated on herds overdue their tests (because of the backlog caused by the Foot and Mouth Disease outbreak).

provisional (p)

What is bovine tuberculosis?

Bovine tuberculosis (bTB) is a chronic infectious disease of cattle¹. The risk bTB poses to human health is low, largely due to milk pasteurisation. The disease is detected either on farms (through mandatory skin tests² of cattle herds for bTB at regular intervals) and at abattoirs (through postmortem meat inspection of cattle carcases).

What are the impacts of bTB?

Bovine TB presents serious challenges to the food and farming industries and has economic and social impacts. The economic costs of a bTB breakdown³ are shared by farmers and government; in 2012 the estimated average cost of a confirmed herd breakdown in high risk areas of England was £14,000 to farmers and £20,000 to government⁴. Costs are incurred for a number of reasons:

- Cattle which are found (or are highly likely) to have bTB are slaughtered. This loses the farmer the value of the animal and its output. Government pays farmers compensation for slaughtered animals which is based on the market value of cattle.
- There are costs associated with testing animals for bTB. Farmers incur costs from gathering
 animals together, such as paying workers for their time, and government pays the vets' fees for
 carrying out tests on the herd (and in the event of a breakdown on herds in neighbouring
 farms).
- When an animal in a herd tests positive for the disease, the whole herd is put under movement restrictions until all the remaining animals are tested repeatedly with negative results. This presents costs to farmers, for example because they are unable to move their cattle to market or buy in replacements for animals that are slaughtered.

Other impacts of high bTB levels can include:

- Restrictions on trade in cattle within Europe⁵
- Significant stress amongst famors, their families and local communities⁶
- The infection spilling over to domestic and wild animals ⁷.

Why monitor statistics about bTB?

Legal requirements: EU Member States are legally required to have accelerated bTB eradication plans in place in order to achieve officially TB free (OTF) status⁸. Defra and Welsh Government policy is to achieve OTF status for the whole country by 2038, while Scotland achieved OTF status in September 2009. bTB statistics are used in England and Wales to measure progress towards this

¹ bTB is caused by the bacterium *Mycobacterium bovis* (*M. bovis*). Cattle are the natural host of the bacterium, but many other species, including wildlife such as badgers and (less commonly) deer, are also susceptible to *M. bovis*, can develop TB and transmit the infection to other species.

other species.

² the tuberculin skin test: if tuberculin (a purified sterile cocktail of proteins derived from *M. bovis* cultures) is injected into the skin of an animal infected with *M. bovis*, this will cause a localised allergic reaction characterised by temporary swelling of the skin, which is measured 72hrs after the injection. The principle is very similar to the skin tests for TB in humans.

³ A *breakdown* is the term used to describe the occurrence in a herd of at least one animal with a positive reaction to the skin test, or the identification of *M. bovis* in an animal with TB lesions detected at routine slaughter. The affected herd is then placed under restrictions and loses its Officially TB Free (OTF) status.

⁴ Economic analysis based on <u>research report SE3112 for Defra, 2004</u>

⁵ Because the disease undermines the effective operation of the single market – see the EU Animal Health Strategy

⁶ See for example <u>research report SE3120 for Defra, 2008</u>

⁷ For example Broughan, J. M., Downs, S. H., Crawshaw, T. R., Upton, P. A., Brewer, J. & Clifto-Hadley, R. S. (2013) *Mycobacterium bovis* infections in domesticated non-bovine mammalian species. Part 1: review of epidemiology and laboratory submissions in Great Britain 2004-2010. *Veterinary Journal* **198**, 346-35. See also <a href="http://webarchive.nationalarchives.gov.uk/20130822084033/http://www.defra.gov.uk/animal-diseases/a-z/bovine-tb/animal-keepers/other-species/" "OTF Status" takes its meaning from European law: for a region or Member State of the EU to be considered to be OTF the annual

⁸ "OTF Status" takes its meaning from European law: for a region or Member State of the EU to be considered to be OTF the annual incidence of herds with confirmed *M. bovis* infection must not have exceeded 0.1% and at least 99.9% of the herds within it must have been free from bTB at the end of the year for at least six consecutive years.

target, and to support the annual case for Scotland to retain its OTF status, as the qualification is based on herd incidence.

Monitoring policy effectiveness: Statistics on the incidence of bTB in cattle herds and the number of cattle slaughtered as a result of bTB are used by policymakers to monitor the spread and concentration of the disease and to inform decisions around the potential approaches to controlling it. Existing controls include routine testing in cattle based on the disease incidence (or risk) in a given area, restricting movements of cattle from herds where an animal has tested positive for the disease and addressing the problem of disease spread through wildlife (principally badgers).

Factors affecting statistics on incidence of bTB in cattle herds

Variation in the monthly statistics can occur for a number of reasons, including:

- **Disease**: an increase in the trend can be the result of a higher proportion of herds experiencing a breakdown because of an increase in the underlying incidence of bTB.
- Surveillance policy (including the frequency of testing): Cattle herds in high risk areas are tested annually and cattle herds in low risk areas are usually tested every four years. If cattle herds in a low prevalence region are tested more frequently than every four years, the increase in the number of bTB tests will not necessarily be followed by a similar increase in the detection of infected cattle and so this may result in a decline in the incidence rate.
- **Seasonality**: more animals are tested when they are housed, during winter months, compared with when they are grazing outdoors in summer months. This is simply because it is easier to gather and test the cattle when they are already contained within a building. The blue trend line in Figures 1 and 2 account for this by presenting seasonally adjusted data.
- Number of testing days in a given month: tests tend to be carried out at the beginning of the
 working week and the results collected and entered into the data system towards the end of
 the week. Months containing five Fridays may therefore have more positive test results than
 months containing four.

An extreme example of the impact of testing on the incidence rate can be seen in the statistics for 2001, when bTB testing was significantly reduced for most of the year due to the outbreak of Foot and Mouth Disease but new bTB breakdowns continued to be detected through disease surveillance in abattoirs. This led to an unusually high incidence rate for 2001 and 2002, when effectively two years' worth of breakdowns were identified in one year when the normal testing regime resumed.

Surveillance policy in GB

These statistics are presented for GB, but the bTB surveillance and control policy – including how frequently animals are tested for bTB – varies between England, Wales and Scotland and has changed over time.

Timeline:

- 1990s: most herds in GB tested every four years and background testing intervals determined on a parish basis. Herds in parishes with a high incidence of bTB breakdowns (in the South West of England and in parts of Wales) are tested on an annual or biennial basis, with a smaller number of three-yearly testing herds.
- 2004 to 2010: the proportion of parishes and herds in England and Wales with annual testing
 increases gradually as the disease spread, with a corresponding decrease in the proportion of
 parishes with four-yearly testing.

⁹ South West, West Midlands and East Sussex, where the majority of TB cases are found and where the prevalence (probability) of TB-infected cattle and badgers is relatively high.

- October 2009: the European Commission designates Scotland as an officially bTB free region of the UK.
- January 2010: In England, a core annual testing area is established, spanning entire counties in the South West and West Midlands (the 'high risk area') and surrounded by a 'buffer' of two-yearly testing parishes. Most of the rest of England remains on background four-year testing. The Welsh Government puts all cattle herds in Wales on annual bTB testing (with herds in the small Intensive Action Area of West Wales put on 6-monthly bTB testing).
- 2011 and 2012: further expansion of the annual testing area in England to the east and north.
- **January 2013**: herd testing intervals are determined on a county basis and England is split into annual testing and four-yearly testing counties. Annual testing of herds is extended to all the counties at the edge of the high risk area (more detail below). Three- and two-yearly testing is abolished.

Current differences in surveillance policy in GB

- England is divided into two cattle bTB testing frequency areas that broadly reflect the geographically clustered nature of the disease. The majority of bTB cases are found in counties of the South West, West Midlands and East Sussex. These herds are tested for bTB annually and represent nearly 60% of all herds in England. In the rest of England most herds are tested every four years. Herds that have a high risk of contracting bTB or present a potential public health risk (e.g. producer-retailers of unpasteurised milk) are tested annually regardless of their location.
- All herds in **Wales** are tested annually.
- **Scotland** has in place a risk-based routine herd testing policy. This targets testing at higher risk herds. Around 35 per cent of herds are considered low risk herds and are exempt from routine testing. Herds that are not exempt tested are every four years.

More information on bovine TB can be found at:

England:-

https://www.gov.uk/government/policies/reducing-bovine-tuberculosis

Wales:-

http://wales.gov.uk/topics/environmentcountryside/ahw/disease/bovinetuberculosis

Scotland:-

http://www.scotland.gov.uk/Topics/farmingrural/Agriculture/animal-welfare/Diseases/disease/tuberculosis

Methodology

For a description of the data sources and methodology used in the calculation of the TB statistics, together with notes on data revisions policy etc. Refer to the Annex document at:https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/305850/bovinetb-annex-24apr14.pdf

Further Information

This statistical notice and a wide range of other statistics are available on the internet at - https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs/about/statistics