



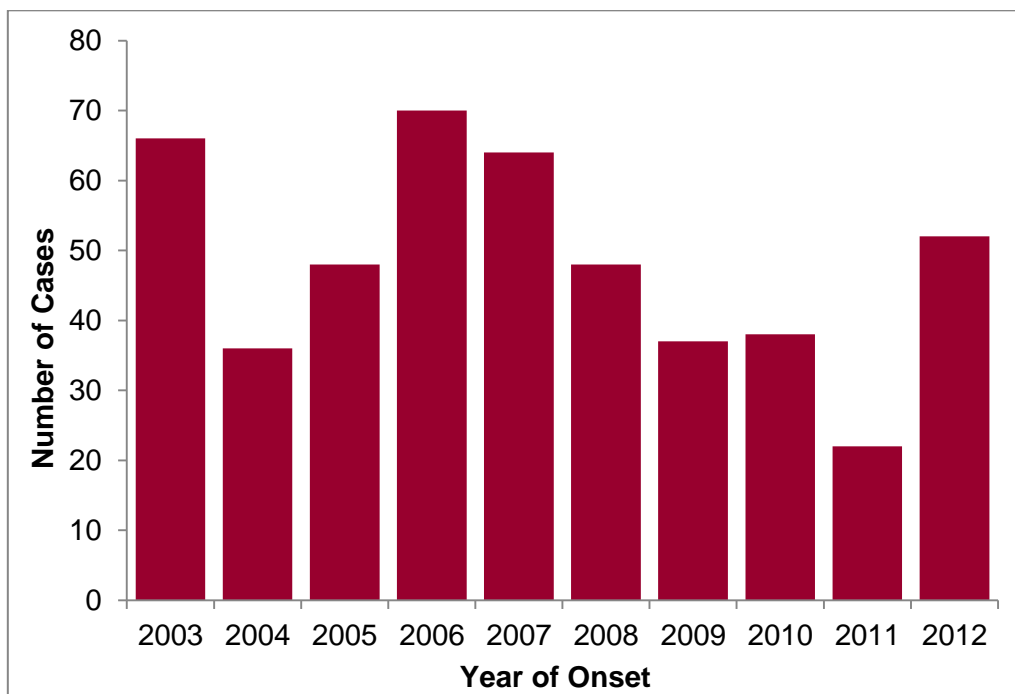
## Local summary of Legionnaires' disease in residents of England and Wales, 2010 – 2012

### West Midlands

This report provides a short summary of Legionella activity in residents of West Midlands, with particular emphasis on cases with onset of symptoms during 2012. Data for years 2010 and 2011 and in some tables and graphs, for years 2003 to 2011, are presented for comparative purposes.

For a wider analysis of Legionella activity across England and Wales, please refer to the Legionnaires' disease annual report – 2012, available on the Public Health England website.

**Figure 1:** Number of cases of legionellosis (confirmed and presumptive) in residents of West Midlands by year of onset of symptoms; 2003 – 2012



**Table 1:** Number of cases of legionellosis (confirmed and presumptive) in residents of West Midlands by disease type and year of onset; 2010 – 2012

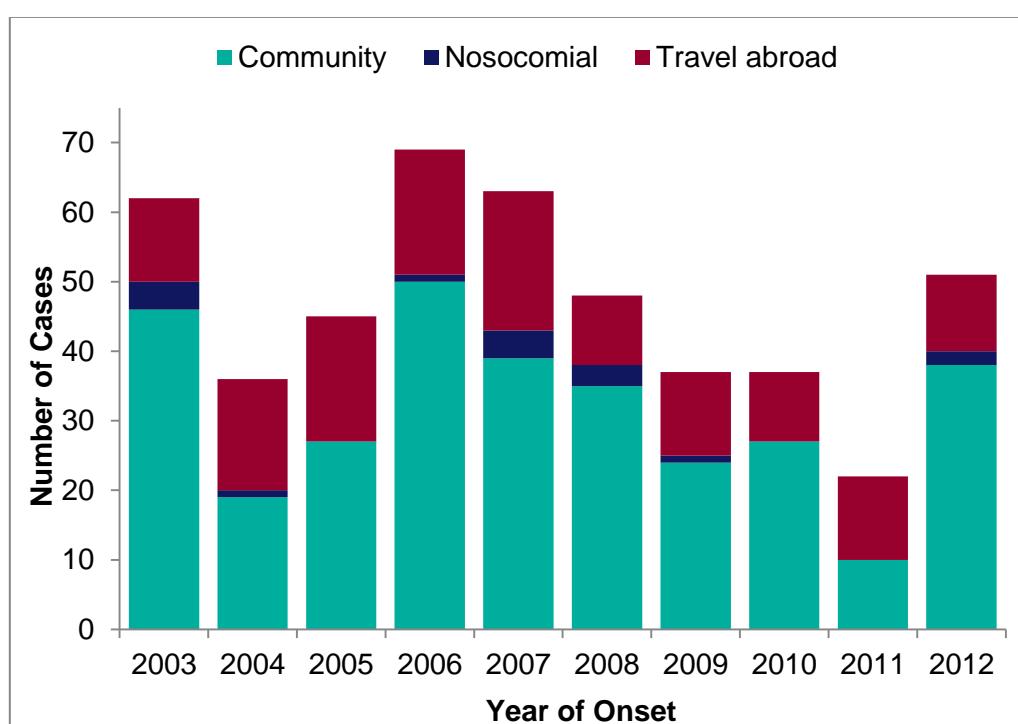
	Number of confirmed (presumptive*) cases			
	2010	2011	2012	Total (2010-2012)
<b>Legionnaires' disease</b>	37	22	51	<b>110</b>
<b>Non-pneumonic Legionellosis</b>	1	-	1	<b>2</b>
<b>Pontiac fever</b>	-	-	-	<b>0</b>
<b>Total</b>	<b>38</b>	<b>22</b>	<b>52</b>	<b>112</b>

\* Presumptive cases with only a single high titre or PCR result

**Table 2:** Number & population rate per million of confirmed cases of Legionnaires' disease in residents of West Midlands by year of onset; 2010 – 2012

Region	2010		2011		2012		Total (2010-2012)	
	n	Rate	n	Rate	n	Rate	n	Rate
<b>West Midlands</b>	37	6.60	22	3.92	51	9.09	<b>110</b>	<b>6.54</b>
<b>National</b>	<b>357</b>	<b>6.36</b>	<b>235</b>	<b>4.18</b>	<b>306</b>	<b>5.45</b>	<b>898</b>	<b>5.33</b>

**Figure 2:** Number of confirmed Legionnaires' disease cases<sup>o</sup> in residents of West Midlands by year of onset and category; 2003-2012



<sup>o</sup> Confirmed LD case: diagnosis by culture, urinary antigen or FFR and evidence of pneumonia

**Table 3:** Number and proportion of confirmed Legionnaires' disease cases in residents of West Midlands by likely exposure category; 2010 – 2012

Category	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
Community <sup>†</sup>	27 (73.0)	10 (45.5)	38 (74.5)	<b>75 (68.2)</b>	<b>497 (55.4)</b>
Nosocomial	-	-	2 (3.9)	<b>2 (1.8)</b>	<b>44 (4.9)</b>
Travel abroad	10 (27.0)	12 (54.6)	11 (21.6)	<b>33 (30.0)</b>	<b>357 (39.8)</b>
<b>Total</b>	<b>37</b>	<b>22</b>	<b>51</b>	<b>110</b>	<b>898</b>

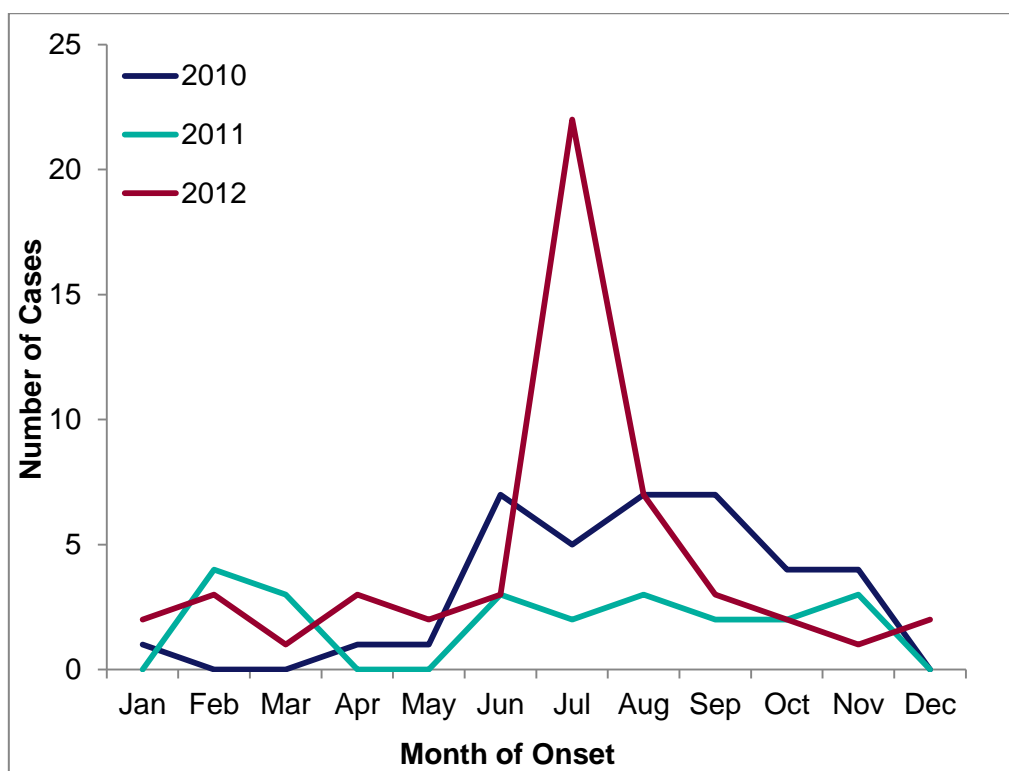
<sup>†</sup> includes travel UK cases

**Table 4:** Number and proportion of confirmed Legionnaires' disease cases in residents of West Midlands by age group and gender, with age specific case-fatality rates; 2010 – 2012

Age Groups	Number (%) of cases			No. Deaths	Age Specific CFR (95% CI)
	Female	Male	Total (2010-2012)		
Under 50 years	3 (15.0)	17 (85.0)	<b>20 (18.2)</b>	0	0 (0.0 - 16.8 <sup>‡</sup> )
50-59 years	7 (30.4)	16 (69.6)	<b>23 (20.9)</b>	0	0 (0.0 - 14.8 <sup>‡</sup> )
60-69 years	11 (26.8)	30 (73.2)	<b>41 (37.3)</b>	4	9.8 (2.7 - 23.1)
70 years & over	6 (23.1)	20 (76.9)	<b>26 (23.6)</b>	3	11.5 (2.4 - 30.2)
<b>Total</b>	<b>27 (24.6)</b>	<b>83 (75.4)</b>	<b>110 (100.0)</b>	<b>7</b>	<b>6.4 (2.6 - 12.7)</b>

<sup>‡</sup> one sided confidence interval

**Figure 3:** Number of confirmed Legionnaires' disease cases in residents of West Midlands by month and year of onset; 2010 – 2012



**Table 5:** Legionnaires' disease cases in residents of West Midlands by diagnostic test and year of onset; 2010 - 2012~

West Midlands	2010	2011	2012	Total (2010-2012)	National Total (2010-2012)
<b>Case Numbers<sup>†</sup></b>	<b>37</b>	<b>22</b>	<b>51</b>	<b>110</b>	<b>898</b>
<b>Culture</b>	1	-	10	<b>11</b>	<b>180 (20.0)</b>
<b>Urine</b>	37	22	51	<b>110</b>	<b>881 (98.0)</b>
<b>Serology (SHT)</b>	-	-	-	-	<b>13 (1.5)</b>
<b>Serology (FFR)</b>	-	-	-	-	<b>3 (0.3)</b>
<b>PCR</b>	4	-	12	<b>16</b>	<b>145 (16.2)</b>

~ This table shows the investigations carried out on each confirmed case

<sup>†</sup> Please note that some cases have more than one diagnostic test carried out, therefore the sum of diagnostic tests does not equal the annual 'case number'.

**Table 6:** Number of confirmed Legionnaires' disease cases in residents of West Midlands by Local Authority (Upper-Tier) and year of onset; 2010 – 2012

<b>Local Authority</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>Total (2010-2012)</b>
<b>Birmingham</b>	8	3	8	<b>19</b>
<b>Cannock Chase</b>	-	1	-	<b>1</b>
<b>Coventry</b>	3	1	2	<b>6</b>
<b>Dudley</b>	1	-	4	<b>5</b>
<b>East Staffordshire</b>	1	-	1	<b>2</b>
<b>Hereford</b>	2	1	-	<b>3</b>
<b>Lichfield</b>	-	-	1	<b>1</b>
<b>Malvern Hills</b>	-	2	1	<b>3</b>
<b>Newcastle under Lyme</b>	-	-	5	<b>5</b>
<b>North Warwickshire</b>	-	-	1	<b>1</b>
<b>Nuneaton and Bedworth</b>	-	2	-	<b>2</b>
<b>Redditch</b>	1	-	-	<b>1</b>
<b>Rugby</b>	-	1	-	<b>1</b>
<b>Sandwell</b>	1	-	2	<b>3</b>
<b>Shropshire UA</b>	4	-	-	<b>4</b>
<b>Solihull</b>	3	1	-	<b>4</b>
<b>South Staffordshire</b>	1	-	-	<b>1</b>
<b>Stafford</b>	-	1	2	<b>3</b>
<b>Staffordshire Moorlands</b>	2	-	3	<b>5</b>
<b>Stoke on Trent</b>	1	-	14	<b>15</b>
<b>Stratford on Avon</b>	1	2	1	<b>4</b>
<b>Tamworth</b>	1	-	-	<b>1</b>
<b>Telford and Wrekin</b>	1	-	-	<b>1</b>
<b>Walsall</b>	2	4	1	<b>7</b>
<b>Wolverhampton</b>	3	-	1	<b>4</b>
<b>Worcester</b>	1	-	2	<b>3</b>
<b>Wychavon</b>	-	2	2	<b>4</b>
<b>Wyre Forest</b>	-	1	-	<b>1</b>
<b>Total</b>	<b>37</b>	<b>22</b>	<b>51</b>	<b>110</b>

**Table 7:** Number and type of outbreaks/clusters with associated number of West Midlands cases of Legionnaires' disease; 2010 – 2012

Category	2010		2011		2012		Total (2010-2012)	
	OB	Cases	OB	Cases	OB	Cases	OB	Cases
Community	1	4(1 <sup>^</sup> )	1	4(3 <sup>^</sup> )	1	23	3	31(4 <sup>^</sup> )
Nosocomial	-	-	-	-	-	-	0	0
Travel UK	-	-	-	-	-	-	0	0
<b>Total</b>	<b>1</b>	<b>4(1<sup>^</sup>)</b>	<b>1</b>	<b>4(3<sup>^</sup>)</b>	<b>1</b>	<b>23</b>	<b>3</b>	<b>31(4<sup>^</sup>)</b>

<sup>^</sup> outbreak includes one or more cases with onset of symptoms in 2007 - 2009

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