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Summary

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- Foodborne and non-foodborne outbreaks are incidences of two or more human cases of the same disease or infection where the cases are linked or are probably linked to the same source. Situation, in which the observed human cases exceed the expected number of cases and where a same source is suspected, is also indicative of an outbreak.
- Types of general gastrointestinal outbreaks included in eFOSS:
 - Foodborne outbreaks inclusive of potable water (Directive 2003/99/EC, Regulation (EC) No. 178/2002)
 - Non-foodborne outbreaks associated with recreational water, other/outdoor events (environmental exposure e.g. mud), and animal contact
 - Person to person outbreaks caused by verocytotoxin-producing *Escherichia coli* (VTEC)
- This data include all outbreaks reported to Public Health England, Centre for Infectious Disease Surveillance and Control, England and Wales 2004 – 2013

PHE Gastrointestinal Infections Data

Summary of eFOSS data, 2013



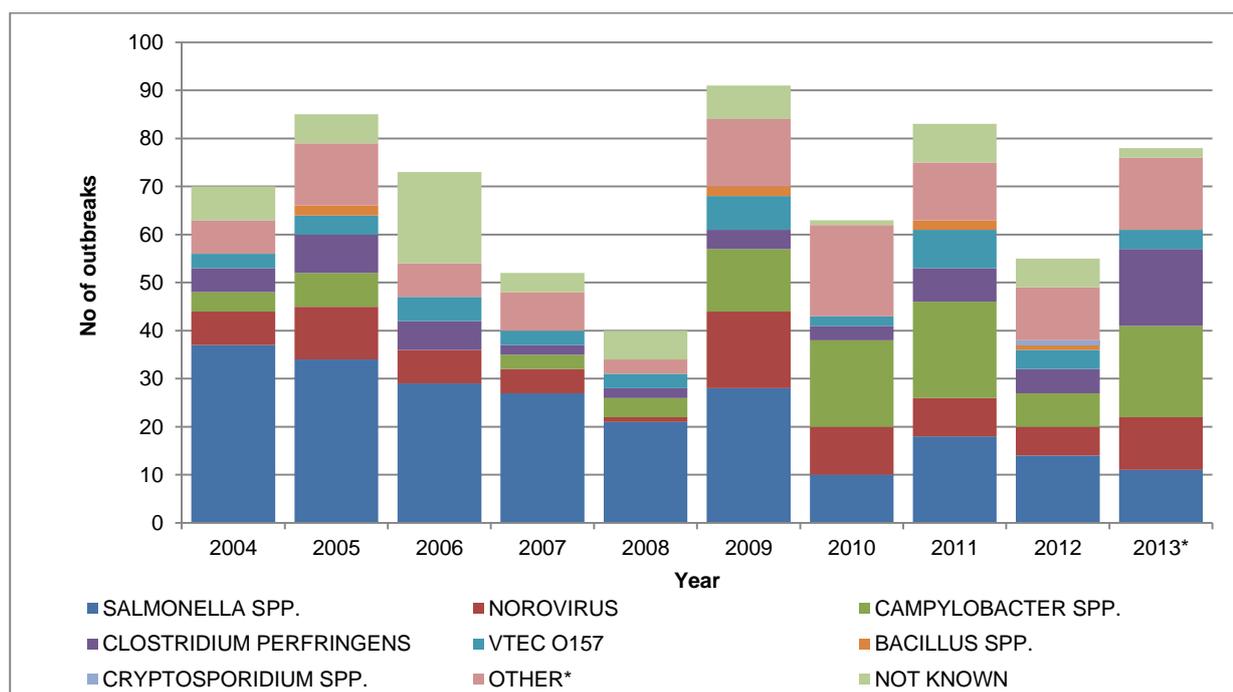
Public Health
England

Outbreaks of foodborne diseases reported by year, 2004 - 2013

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Year	No of outbreaks
2004	70
2005	87
2006	73
2007	52
2008	41
2009	91
2010	63
2011	83
2012	55
2013*	79

*2013 data remain provisional



*Other includes: *Listeria monocytogenes*, DSP, Hep A, Scombrototoxin, *Shigella* sp., *Staphylococcus Aureus* and *Giardia Lamblia*

Full annual data 1992 – 2013 available in [Appendices](#)

Source: PHE eFOSS Dataset.

PHE Gastrointestinal Infections Data

Summary of eFOSS data, 2013



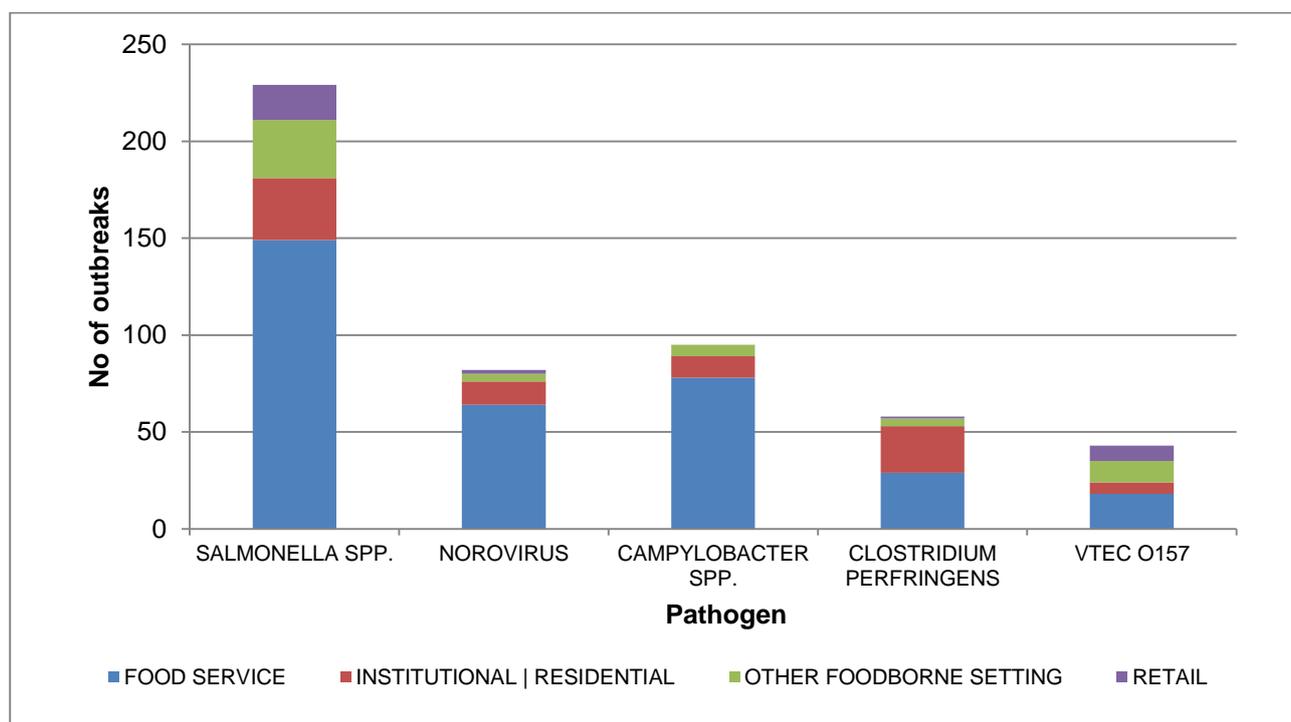
Public Health
England

Outbreaks of foodborne diseases reported by setting, 2004 – 2013

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Year	Food services	Institutional/Residential	Other	Retail
2004	44	20	3	3
2005	58	13	11	5
2006	45	19	7	2
2007	35	7	5	5
2008	23	9	6	3
2009	70	12	3	6
2010	52	6		5
2011	65	11	4	3
2012	39	4	8	4
2013*	44	12	19	4

*2013 data remain provisional



Source: PHE eFOSS Dataset.

PHE Gastrointestinal Infections Data

Summary of eFOSS data, 2013

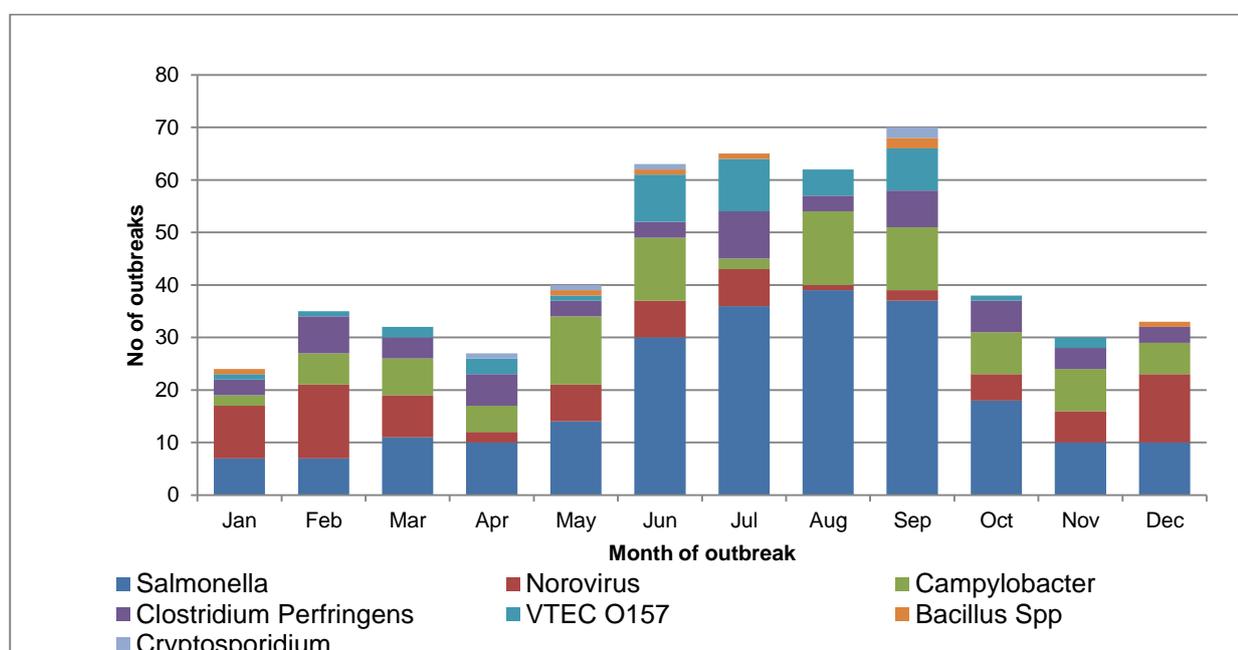


Public Health
England

Outbreaks of foodborne diseases reported by season, 2004 – 2013

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Month of outbreak	Number of outbreak
Jan	39
Feb	50
Mar	45
Apr	44
May	50
Jun	78
Jul	89
Aug	71
Sep	83
Oct	47
Nov	46
Dec	52



Source: PHE eFOSS Dataset.

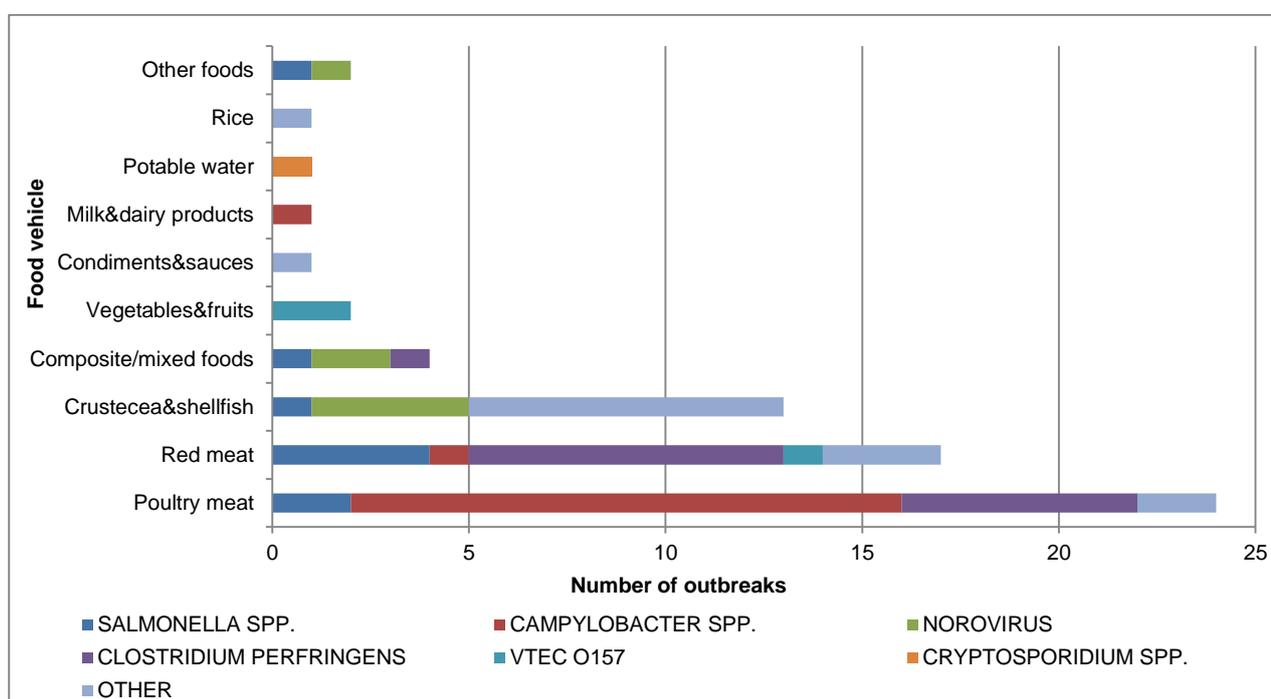


PHE Gastrointestinal Infections Data

Summary of eFOSS data, 2013

Implicating food vehicles and supporting evidence of foodborne outbreak, 2013 [\[Top\]](#)

Implicating food vehicle	No of outbreaks	Evidence	No of outbreaks
Poultry meat	25	Descriptive alone	37
Red meat	18	Analytic alone (case-control or cohort study)	15
Crustacea + shellfish	13	Microbiological alone	7
Composite/mixed foods	4	Microbiological and analytical	5
Vegetables + fruit	2	Microbiological and descriptive	4
Condiments + sauces	1	Analytical and descriptive	3
Milk + dairy products	1	Microbiological, analytical and descriptive	3
Potable water	1	None	5
Rice	1		
Other foods	2		
Not known	11		



Source: PHE eFOSS Dataset.

PHE Gastrointestinal Infections Data

Summary of eFOSS data, 2013



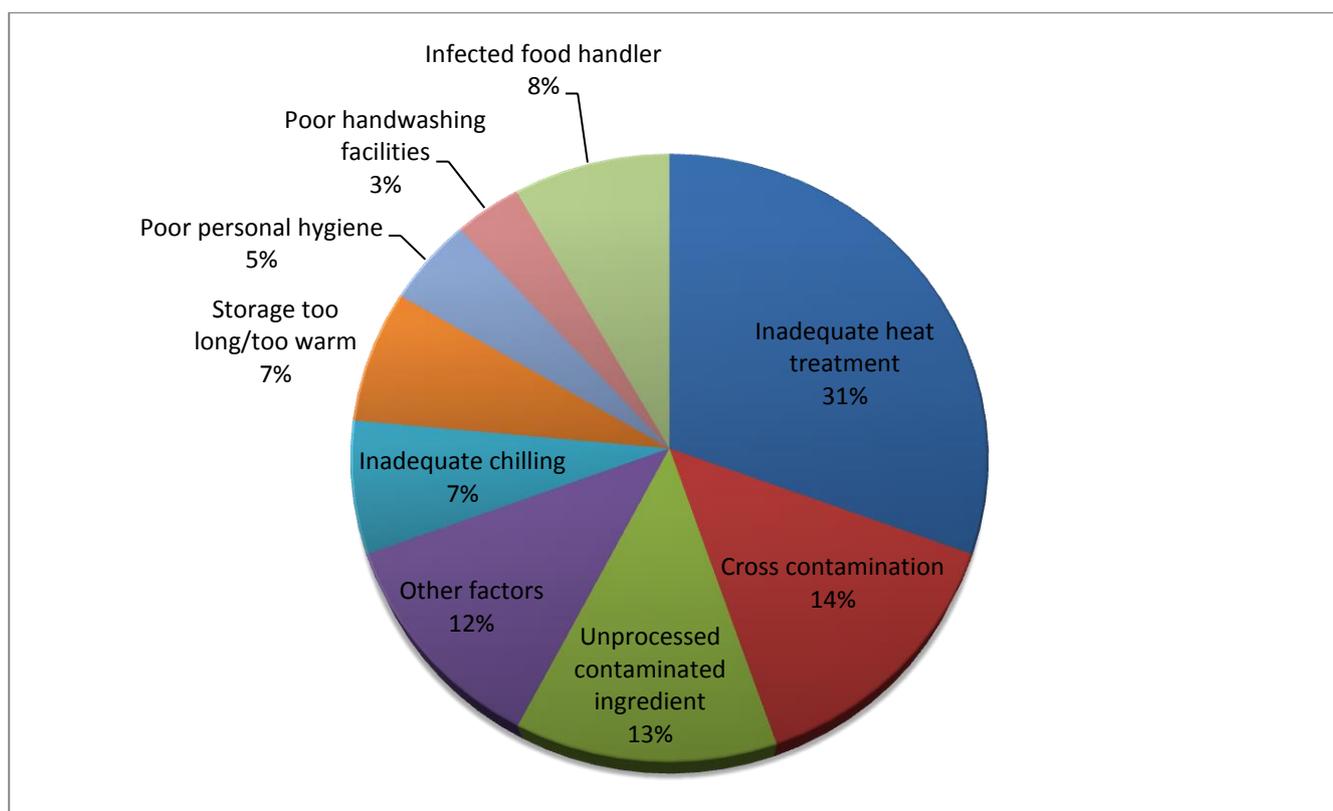
Public Health
England

Contributory factors of outbreaks of foodborne diseases, 2013

[\[Top\]](#)

Contributory factors*	No of outbreaks
Inadequate heat treatment	26
Cross contamination	12
Unprocessed contaminated ingredient	11
Infected food handler	7
Inadequate chilling	6
Storage too long/too warm	6
Poor personal hygiene	4
Poor hand washing facilities	3
Other factors	10

*More than one contributory factor can be reported per outbreak



Source: PHE eFOSS Dataset.



PHE Gastrointestinal Infections Data

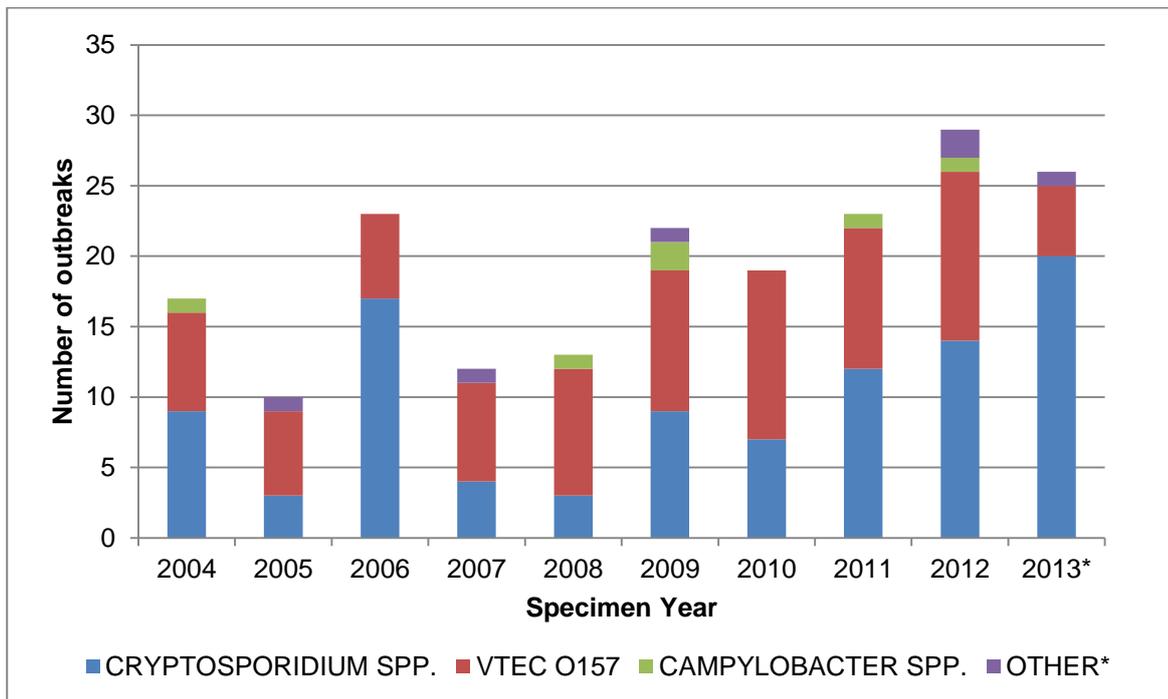
Summary of eFOSS data, 2013

Outbreaks of non-foodborne diseases reported by year, 2004 - 2013

[\[Top\]](#)

Year	No of outbreaks
2004	17
2005	10
2006	23
2007	12
2008	13
2009	22
2010	19
2011	23
2012	29
2013*	26

*2013 data remain provisional



*Other includes: *Norovirus*, *Salmonella spp.* and *Giardia Lamblia*

Full annual data 1992 – 2013 available in [Appendices](#)

Source: PHE eFOSS Dataset.

PHE Gastrointestinal Infections Data

Summary of eFOSS data, 2013

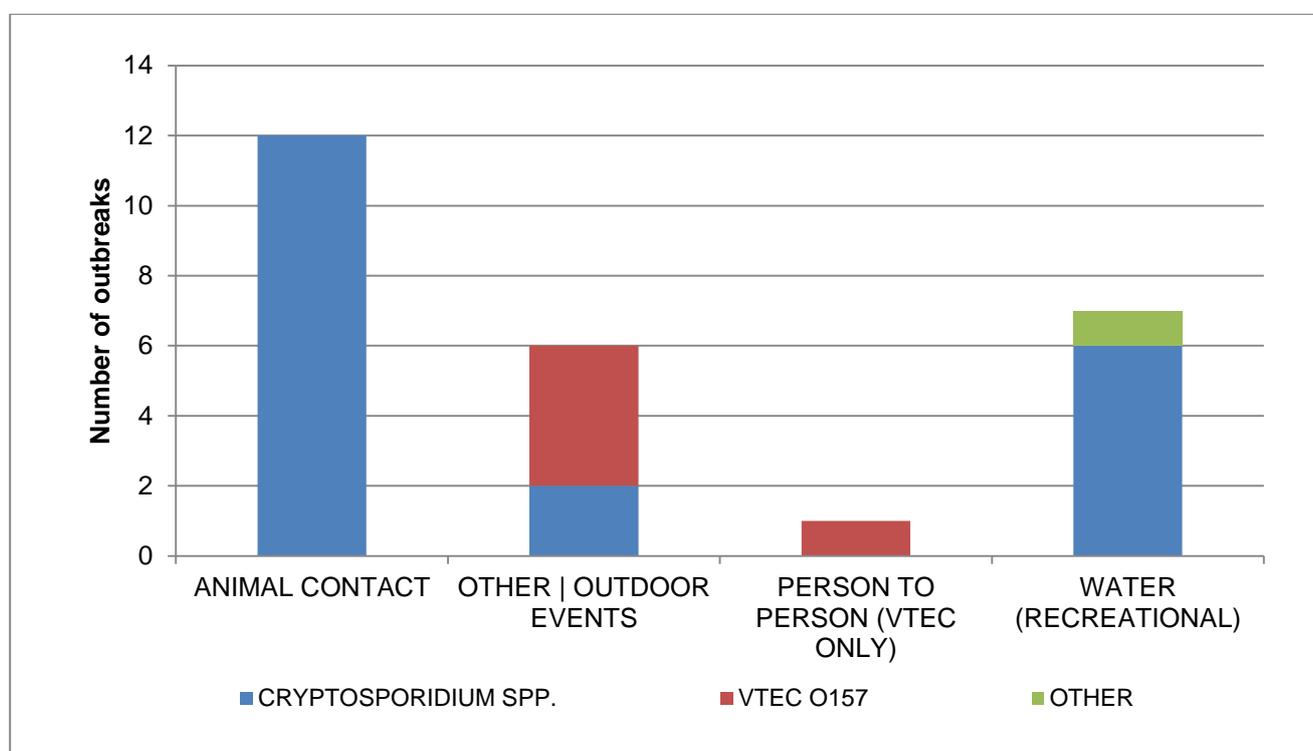


Public Health
England

Mode of transmission of non-foodborne outbreaks, 2013

[\[Top\]](#)

MODE OF TRANSMISSION	NUMBER OF OUTBREAKS
Animal contact	12
Water (recreational)	7
Other outdoor events	6
Person to person (VTEC only)	1



Source: PHE eFOSS Dataset.

PHE Gastrointestinal Infections Data

Summary of eFOSS data, 2013



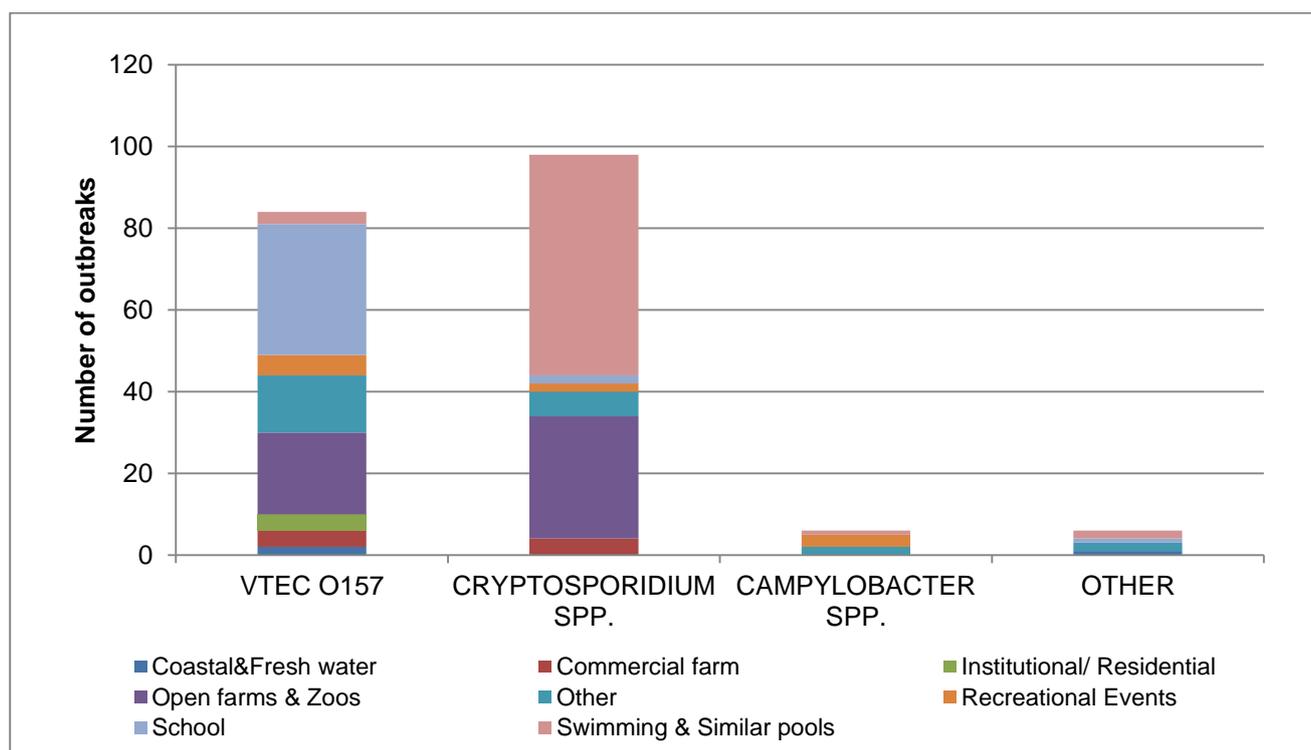
Public Health
England

Outbreaks of non-foodborne diseases reported by setting, 2004 – 2013

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Year	School	Swimming + similar pools	Open farms + zoos	Other	Recreational event	Commercial farm	Institutional residential	Coastal + freshwater
2004	1	7	3	3	1	1	0	1
2005	2	3	3	1	0	0	1	0
2006	3	15	2	2	0	0	1	0
2007	4	3	3	1	0	1	0	0
2008	4	3	3	1	1	0	1	0
2009	2	7	8	3	0	2	0	0
2010	4	4	7	2	1	0	0	1
2011	7	3	7	4	1	1	0	0
2012	5	9	5	4	4	1	1	0
2013*	3	6	9	3	2	2	0	1

*2013 data remain provisional



Source: PHE eFOSS Dataset.

PHE Gastrointestinal Infections Data

Summary of eFOSS *data*, 2013

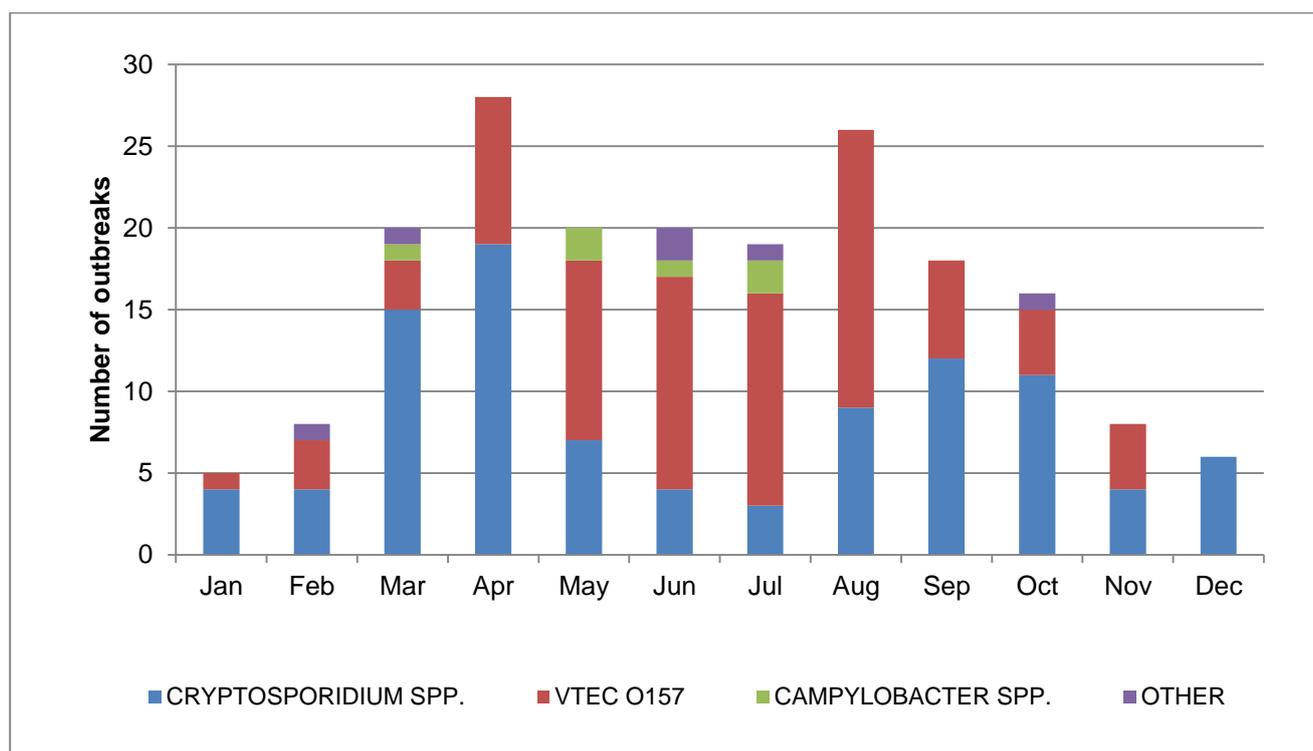


Public Health
England

Outbreaks of non-foodborne diseases reported by season, 2004 - 2013

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Month of outbreak	Number of outbreaks reported
January	5
February	8
March	20
April	28
May	20
June	20
July	19
August	26
September	18
October	16
November	8
December	6



Source: PHE eFOSS Dataset.



PHE Gastrointestinal Infections Data

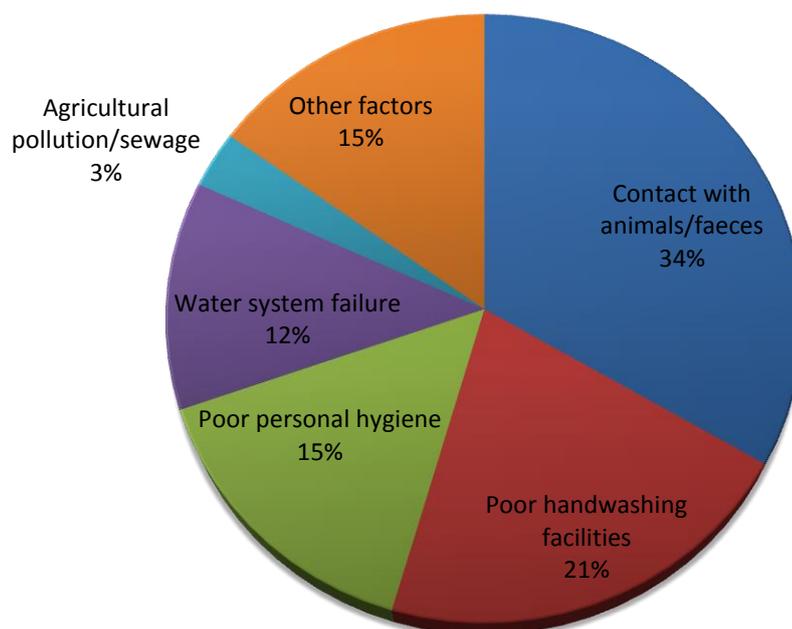
Summary of eFOSS data, 2013

Contributory factors of outbreaks of non-foodborne diseases, 2013

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Contributory factor*	Number of outbreaks
Contact with animals/faeces	11
Poor hand washing facilities	7
Poor personal hygiene	5
Water system failure	4
Agricultural pollution/sewage	1

*More than one contributory factor can be reported per outbreak



Source: PHE eFOSS Dataset.



PHE Gastrointestinal Infections Data

Summary of eFOSS *data*, 2013

APPENDICES

Annual reports of outbreaks of foodborne and non-foodborne diseases 1992- 2013

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Year	Foodborne outbreaks	Non-foodborne outbreaks
1992	238	2
1993	249	4
1994	245	9
1995	236	6
1996	209	2
1997	254	12
1998	151	13
1999	123	13
2000	125	22
2001	105	15
2002	89	9
2003	83	13
2004	70	17
2005	87	10
2006	73	23
2007	52	12
2008	41	13
2009	91	22
2010	63	19
2011	83	23
2012	55	29
2013*	79	26

**2013 data remain provisional*

Source: PHE eFOSS Dataset.