

Outbreaks from Foodborne Pathogens in Pasteurized Milk and Pasteurized Milk Cheeses, United States 1998-present

These tables were compiled by the Real Raw Milk Facts working group through searches of the Centers for Disease Control and Prevention’s (CDC) online [foodborne disease outbreak database](#) (1998-2009). Because the CDC database has about a two-year lag period, preliminary data was gathered from government and dairy industry press releases, reports, and newsletters to document recent outbreaks (2010-present). Information on farm type and size was taken from the implicated dairy’s website, when available.

SUMMARY

- 26 total outbreaks
 - 9 fluid milk
 - 16 cheese: 14 non-Mexican style; 2 Mexican style queso fresco
 - 1 powdered milk
- 2,786 total illnesses, 4 deaths
 - 2,200 fluid milk-related illnesses (3 deaths)
 - 550 cheese-related illnesses: 537 non-Mexican style (1 death), 13 Mexican style queso fresco
 - 36 powdered milk-related illnesses

Table 1. 2010-2012 Data Extracted from Online News Releases and Reports.

Year	Month	State	Etiology	No. Ill	Source	Type of Farm	Comments/References
2011	Mar-Aug	PA	<i>Yersinia enterocolitica</i>	16	Pasteurized cow milk	Brunton Dairy, small family farm (~100 cows); on-farm pasteurization, bottling and home delivery	Retail (legal); CDC 2011

Year	Month	State	Etiology	No. Ill	Source	Type of Farm	Comments/References
2010	Aug	OR	<i>Salmonella</i> Braenderup	23	Pasteurized cow milk and cream	Umpqua Dairy Farm in Roseburg, OR; outbreak resulted from external contamination of sealed containers, not the milk itself.	Retail (legal); 2 hospitalizations; OHA 2010
2010	Feb	WA	<i>Listeria monocytogenes</i>	5	Pasteurized Mexican style queso fresco cheese	Queseria Bendita brand (unspecified milk source)	Retail (legal); FDA 2010

Table 2. 1998-2009 data extracted from CDC's Foodborne Outbreak Online Database (FOOD).

Year	Month	State	Etiology	No. Ill	No. hospitalized	Source	Comments/references
2009	Nov	WA	<i>Listeria monocytogenes</i>	2	2	Cheese	
2008	Oct	Multistate	<i>Listeria monocytogenes</i>	8	4	Pasteurized Mexican style queso fresco cheese	
2008	Apr	NJ	<i>Salmonella</i> Java	70	0	Pasteurized heddard cheese	
2007	Aug	Multistate	<i>Salmonella</i> Montevideo	20	9	Pasteurized shredded cheese	
2007	Jun	MA	<i>Listeria monocytogenes</i>	5	3	Pasteurized milk	3 deaths; local farm and processor, home delivery; CDC 2008
2006	Dec	CT	Norovirus	11	0	Pasteurized swiss cheese	
2006	Aug	OR	<i>Listeria monocytogenes</i>	3	2	Pasteurized cheese	1 death

Year	Month	State	Etiology	No. Ill	No. hospitalized	Source	Comments/references
2006	May	CA	<i>Campylobacter jejuni</i>	1644	7	Pasteurized milk	Prison/jail; milk not distributed to the public
2006	May	MI	<i>Staphylococcus aureus</i>	36	0	Powdered milk	Prison/jail; milk not distributed to the public
2005	Sep	CO	<i>Campylobacter jejuni</i>	200	1	Pasteurized 1% milk	Prison/jail; milk not distributed to the public
2004	Dec	WA	Norovirus	14	0	Pasteurized cheese	Restaurant
2004	Jun	CA	<i>Salmonella</i> Newport	100	5	Pasteurized milk	
2003	Nov	CA	Norovirus	13	0	Pasteurized cheddar cheese	
2002	Aug	WY	<i>Salmonella</i> Typhimurium	116	4	Pasteurized 2% milk	School
2002	Apr	IN	Norovirus	25	0	Pasteurized cheese	Restaurant
2001	Dec	FL	Norovirus	34	0	Pasteurized cheese	Restaurant
2001	Aug	CT	<i>Salmonella</i> Newport	4	1	Pasteurized cheese	
2001	Apr	FL	<i>Staphylococcus aureus</i>	3	0	Pasteurized cheese	Restaurant
2001	Jan	OH	Norovirus	73	0	Pasteurized swiss cheese	
2000	Aug	PA	<i>Campylobacter jejuni</i>	3	1	Pasteurized milk	
2000*	Mar-Apr	PA/NJ	<i>Salmonella</i> Typhimurium	93	6	Pasteurized milk	Olsen 2004
1999	Jul	MN	Norovirus	7	0	Pasteurized cheese	
1998	Sep	MD	Norovirus	258	4	Pasteurized cheese	

*not listed in FOOD.

REFERENCES

CDC. 2008. Outbreak of *Listeria monocytogenes* infections associated with pasteurized milk from a local dairy--Massachusetts, 2007. MMWR Morb Mortal Wkly Rep 57:1097-100.

CDC. 2011. Notes from the Field: *Yersinia enterocolitica* Infections Associated with Pasteurized Milk --- Southwestern Pennsylvania,

March--August, 2011. MMWR Morb Mortal Wkly Rep 60:1428.

FDA. 2010. Queseria Bendita Recalls Queso Fresco, Panela, and Requeson Because of Possible Health Risk
Available at: <http://www.fda.gov/safety/recalls/ucm201350.htm>

Olsen, S. J., M. Ying, M. F. Davis, M. Deasy, B. Holland, L. Iampietro, C. M. Baysinger, F. Sassano, L. D. Polk, B. Gormley, M. J. Hung, K. Pilot, M. Orsini, S. Van Duyne, S. Rankin, C. Genese, E. A. Bresnitz, J. Smucker, M. Moll, and J. Sobel. 2004. Multidrug-resistant *Salmonella* Typhimurium infection from milk contaminated after pasteurization. Emerg Infect Dis 10:932-5.

OHA. 2010. *Salmonella* cases prompt recall of Umpqua Dairy milk, juice and drink products. Available at: <http://www.oregon.gov/DHS/news/2010news/2010-0818a.pdf>