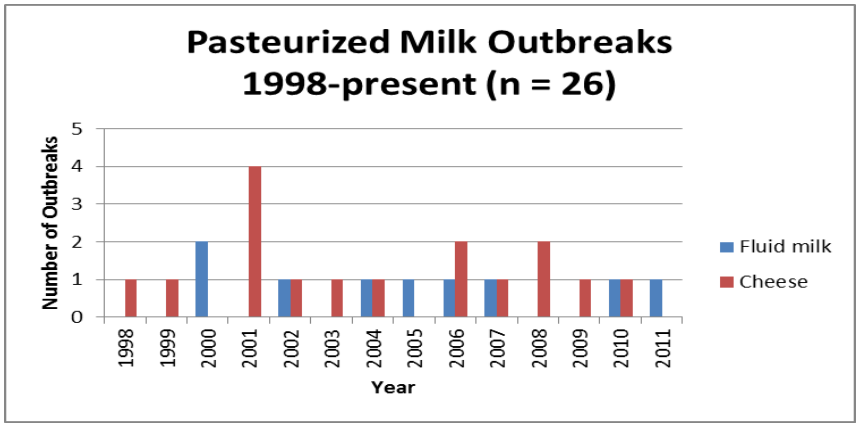
Outbreaks from Foodborne Pathogens in Pasteurized Milk and Pasteurized Milk Cheeses, United States 1998-present

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



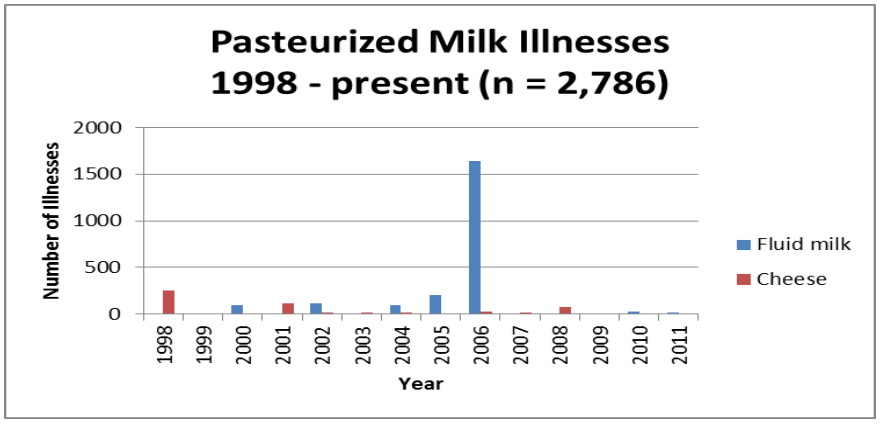


Table 1. 2010-2012 Data Extracted from Online News Releases and Reports.

Year	Month	State	Etiology	No. Ill	Source	Type of Farm	Comments/References
2011	Mar-Aug	PA	*Yersinia enterocolitica*	16	Pasteur-ized cow milk	Brunton Dairy, small family farm (~100 cows); on-farm pasteurization, bottling and home delivery	Retail (legal); CDC 2011
2010	Aug	OR	*Salmonella* Braenderup	23	Pasteur-ized 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	*Listeria monocytogenes*	5	Pateur-ized 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. hospit-alized	Source	Comments/references
2009	Nov	WA	*Listeria monocytogenes*	2	2	Cheese	
2008	Oct	Multistate	*Listeria monocytogenes*	8	4	Pasteurized Mexican style queso fresco cheese	
2008	Apr	NJ	*Salmonella* Java	70	0	Pasteurized cheddar cheese	

Year	Month	State	Etiology	No. Ill	No. hospit-alized	Source	Comments/references
2007	Aug	Multistate	*Salmonella* Montevideo	20	9	Pasteurized shredded cheese	
2007	Jun	MA	*Listeria monocytogenes*	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	*Listeria monocytogenes*	3	2	Pasteurized cheese	1 death
2006	May	CA	*Campylobacter jejuni*	1644	7	Pasteurized milk	Prison/jail; milk not distributed to the public
2006	May	MI	*Staphylococcus aureus*	36	0	Powdered milk	Prison/jail; milk not distributed to the public
2005	Sep	CO	*Campylobacter jejuni*	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	*Salmonella* Newport	100	5	Pasteurized milk	
2003	Nov	CA	Norovirus	13	0	Pasteurized cheddar cheese	
2002	Aug	WY	*Salmonella* 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	*Salmonella* Newport	4	1	Pasteurized cheese	
2001	Apr	FL	*Staphylococcus aureus*	3	0	Pasteurized cheese	Restaurant
2001	Jan	OH	Norovirus	73	0	Pasteurized swiss cheese	
2000	Aug	PA	*Campylobacter jejuni*	3	1	Pasteurized milk	
2000*	Mar-Apr	PA/NJ	*Salmonella* 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.

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Last updated 6/10/2012