

Outbreaks from Foodborne Pathogens in Unpasteurized (Raw) Milk and Raw 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

- 119 total outbreaks
 - 86 fluid milk: 18 cow, 4 goat, 64 unspecified milk type
 - 27 cheese: 2 aged, 3 homemade, 17 Mexican-style queso fresco, 1 goat chevre, 1 curds, 3 unspecified
 - 6 multiple raw dairy products (fluid milk, cheese, and/or colostrum)
- 2,147 total illnesses, 2 deaths
 - 1,514 fluid milk-related illnesses, no deaths: 249 cow, 63 goat, 1,202 unspecified
 - 576 cheese-related illnesses: 46 aged, 80 homemade, 324 Mexican-style queso fresco (2 deaths), 5 goat chevre, 63 curds, 58 unspecified cheese type
 - 57 multiple raw dairy products-related illnesses (fluid milk, cheese, and/or colostrum)

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

Year	Month	State	Etiology	No. Ill	Source	Type of Farm	Comments/References
2012	Jan-Apr	CA	<i>Campylobacter</i> sp.	10	Raw cow milk, other raw dairy products	Organic Pastures Dairy; grassfed, pastured (~400 milking cows)	Retail (legal); CDFAa 2012

Year	Month	State	Etiology	No. Ill	Source	Type of Farm	Comments/References
2012	Apr	OR	<i>E. coli</i> O157:H7 (19 cases) <i>Campylobacter</i> (1 case) <i>Cryptosporidium</i> (1 case)	21	Raw cow milk	Foundation Farm, small 4 cow herdshare	Cowshare (OR law does not specify legality of herdshares); 4 children hospitalized with HUS; 4 children from the farm family sick; OHA 2012
2012	Mar-Apr	MO	<i>E. coli</i> O157:H7	14	Raw cow milk	Stroupe Farm in Howard County, central Missouri	Farm sales legal; 1 child hospitalized with HUS; MDHSS, 2012
2012	Mar	CA	<i>Campylobacter jejuni</i>	9	Raw cow milk, other dairy products	Claravale Farm, San Benito County; Jersey herd	Retail (legal); CDFAb 2012
2012	Jan-Fed	PA/MD/NJ/WV	<i>Campylobacter jejuni</i>	80	Raw cow milk	The Family Cow dairy in Chambersburg; ~200 milking cows	Retail (legal in PA); customers brought milk to other states; MDHMH 2012
2012	Jan	KS	<i>Campylobacter jejuni</i>	18	Raw goat milk	Unnamed dairy in South Central Kansas	Farm sales legal; KDA 2012
2011	Aug-Nov	WA	<i>E. coli</i> O157:H7	3	Raw cow milk	Cozy Vale Creamery and Farm, Tenino; pasture-based micro dairy	Retail sale (legal); WDOH 2011
2011	Aug-Oct	CA	<i>E. coli</i> O157:H7	5	Raw cow milk	Organic Pastures Dairy; grassfed, pastured (~400 milking cows)	Retail sale (legal); CDFA 2011
2011	Sep	NY	<i>Campylobacter</i> sp.	5	Raw cow milk	Willow Marsh Farm; all natural grassfed milk with no feed additives or hormones	Farm sale (legal); NYDOH 2011
2011	Jul	NC	<i>Campylobacter</i> sp.	8	Raw cow milk	Tucker Adkins in York County, SC; ~60 milking cows	Retail sale (legal in SC), customers brought milk from SC to NC; FDA 2011

Year	Month	State	Etiology	No. Ill	Source	Type of Farm	Comments/References
2011	May-Jul	AK	<i>Campylobacter jejuni</i>	18	Raw cow milk	Byers Farm in Matnusk-Susitna (Mat-Su) Valley; ~150 cows	Herdshare (legal, unregulated); AKDOH 2011
2011	Jun	WI	<i>Campylobacter jejuni</i>	18	Raw cow milk	Unnamed Racine County farm; ~250 cows; sells to processor	Parent brought milk to school; DATCP/DHS 2011
2011	Jun	MI	<i>Coxiella burnetii</i>	3	Raw cow milk	Dairy Delight, Livingstone County, MI	Cowshare (legal, unregulated); FSN 2011
2010-2011		UT	<i>Salmonella</i> Newport	62	Raw milk Mexican style queso fresco cheese	Unnamed Wasatch County dairy	Illegal production and distribution of raw milk cheese by a West Valley man; as many as 2,100 may have been infected since 2009; FDA 2011
2010	Dec	MN/OR/VT/WA	<i>E. coli</i> O157:H7	8	Aged raw milk cheese	Sally Jackson Cheeses; small, raw dairy with cows, sheep and goats	Retail sale (legal); FDA 2010
2010	Nov	AZ/CA/CO/NM/NV	<i>E. coli</i> O157:H7 <i>Listeria monocytogenes</i> also found in the cheeses	38	Aged raw milk cheese	Bravo Farms Cheese Factory; medium-sized, hormone and antibiotic free dairy	Retail sale (legal); 15 hospitalized with 1 child with HUS; CDC 2010a
2010	Nov	TX	<i>Salmonella</i> sp.	4	Raw cow milk	Lavon Farms; medium sized (~200 cows) Guernsey and Jersey raw milk dairy	Farm store (legal); DCDOH 2010
2010	Oct	MN	<i>Campylobacter</i> ; <i>Cryptosporidium</i>	7	Raw cow milk, dairy products	Hartmann Dairy Farm; no pesticides, herbicides, antibiotics or genetically modified grains fed to raw milk dairy cows	Farm sale (legal), farmer also sold through off-farm buyer's club (illegal); MDA/MDH 2010a

Year	Month	State	Etiology	No. Ill	Source	Type of Farm	Comments/References
2010	Jun	CO	<i>Campylobacter jejuni</i> ; <i>E. coli</i> O157:H7	30	Raw goat milk	Billy Goat Dairy; small farm (~54 goats)	Hershare (legal); BCPH 2010
2010	May	WA	<i>E. coli</i> O157:H7	2	Raw cow milk	Jackie's Jerseys; small, local grassfed	Retail sale (legal); WDOH 2010a
2010	May	MN	<i>E. coli</i> O157:H7	8	Raw cow milk, dairy products	Hartmann Dairy Farm; no pesticides, herbicides, antibiotics or genetically modified grains fed to raw milk dairy cows	Farm sale (legal), farmer also sold through off-farm buyer's club (illegal); MDA/MDH 2010b
2010	Apr	UT	<i>Salmonella</i> Newport	10	Raw cow milk	Redmond Heritage Farms; small pasture fed (no grain)	Farm and retail sale (legal); CDC 2010b
2010	Apr	UT	<i>Campylobacter</i> sp.	15	Raw cow milk	Ropelato Dairy; medium (~160 cows) raw milk dairy	Retail sale (legal); FSN 2010
2010	Mar	PA	<i>Campylobacter</i>	10	Raw cow milk	Pasture Maid; small, local raw milk dairy	Retail sale (legal); PDA 2010
2010	Feb	WA	Shiga toxin-producing <i>E. coli</i>	6	Raw cow Milk	Jackie's Jerseys; small, local grassfed	Farm and retail sale (legal); WDOH 2010b
2010	Feb	MI/IL/IN	<i>Campylobacter</i> sp.	12	Raw cow milk	Forest Grove Dairy; small (~75 Jerseys), grassfed raw milk dairy	Cowshare (legal, unregulated) and multi-state buyer's club (illegal interstate shipment); FDA 2010
2010	Jan	NY	<i>Campylobacter</i> sp.	5	Raw milk	Willow Marsh Farm; small, local pasture based raw milk dairy	Farm store; NYDOH 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	Sep	WA	<i>E. coli</i> O157:H7; O121	3	0	Raw whole milk	
2009	Aug	WI	<i>Campylobacter jejuni</i>	52	1	Raw whole milk	
2009	May	PA	<i>Campylobacter jejuni</i>	2	0	Raw whole milk	
2009	Mar	UT	<i>Campylobacter jejuni</i>	10	0	Raw milk Mexican-style queso fresco cheese	
2009	Mar	CO	<i>Campylobacter jejuni</i>	81	1	Raw whole milk	Cowshare; CDPHE 2009
2009	Jan	PA	<i>Campylobacter jejuni</i>	9	1	Raw whole milk	
2008	Nov	ND	<i>Campylobacter jejuni</i>	3	0	Raw milk	
2008	Aug	MN	<i>Campylobacter jejuni</i>	2	2	Raw milk	
2008	Aug	PA	<i>Campylobacter jejuni</i>	65	1	Raw milk	
2008	Aug	MN	<i>Campylobacter</i> sp.	2	0	Raw milk	
2008	Aug	VT	<i>E. coli</i> O157:H7	6	3	Raw milk	
2008	Jun	CT	<i>E. coli</i> O157:NM (H-)	14	5	Raw milk	CTDPH 2008; Guh 2010
2008	May	CA	<i>Campylobacter jejuni</i>	16	1	Raw milk	Cowshare
2008	Apr	MO	<i>E. coli</i> O157:H7	4	2	Raw goat milk	MDHSS 2008
2008	Apr	MA	<i>Campylobacter jejuni</i>	8	0	Raw milk	
2008	Apr	OH	<i>Campylobacter jejuni</i>	3	1	Raw milk	
2008	Apr	UT	<i>Campylobacter jejuni</i>	4	0	Raw milk	
2008	Mar	ID	<i>Campylobacter coli</i>	5		Raw milk	
2007	Dec	WA	<i>Campylobacter jejuni</i>	18	0	Raw milk	
2007	Nov	CA	<i>Campylobacter jejuni</i>	11	0	Raw milk/colostrum	Retail sale; CDPH 2008a
2007	Oct	KS	<i>Campylobacter jejuni</i>	16	0	Raw milk and cheese	Donation to fair by local dairy; CDC 2009
2007	Sep	PA	<i>Campylobacter jejuni</i>	4	0	Raw milk	
2007	Jul	GA	<i>Campylobacter jejuni</i>	8	0	Raw milk	
2007	Jun	PA	<i>Salmonella</i> Typhimurium	13	1	Raw milk cheese	On-farm sale; CDC 2007b
2007	Apr	SC	<i>Campylobacter jejuni</i> ; <i>Salmonella</i> Give	11	4	Raw milk	

Year	Month	State	Etiology	No. Ill	No. hospitalized	Source	Comments/references
2007	Apr	NY	<i>Campylobacter</i> sp.	2	1	Raw milk	
2007	Mar	CA	<i>Brucella</i> sp.	3	1	Raw milk Mexican-style queso fresco cheese	
2006	Nov	ID	<i>E. coli</i> O157:H7	4	0	Raw whole milk	
2006	Sep	CA	<i>E. coli</i> O157:H7	6	3	Raw milk/colostrum	Retail sale; CDC 2008a
2006	Sep	CO	<i>Campylobacter</i> sp.	5	4	Raw whole milk	
2006	Sep	WA	<i>E. coli</i> O157:H7	2	1	Raw whole milk	Retail sale; WDOH 2006
2006	Aug	PA	<i>Salmonella</i> Typhimurium	20	2	Raw milk Mexican-style queso fresco cheese	
2006	Aug	KS	<i>Brucella</i> sp	5	3	Raw milk goat/chevre cheese	
2006	May	WI	<i>Campylobacter jejuni</i>	58	2	Homemade raw milk cheese	
2006	May	VA	<i>Campylobacter jejuni</i>	9	0	Raw milk	
2006	Mar	IL	<i>Salmonella</i> Meleagridis; Newport	96	36	Raw milk Mexican-style queso fresco cheese	CDC 2008
2006	Feb	NY	<i>Campylobacter</i> sp.	2	0	Raw whole milk	
2006	Jan	IL	<i>Campylobacter jejuni</i>	18	0	Raw whole milk	
2006	Jan	OH	<i>Campylobacter</i> sp.	3	1	Raw whole milk	
2005	Dec	CO	<i>Campylobacter jejuni</i>	22	0	Raw whole milk	
2005	Nov	Multistate	<i>E. coli</i> O157:H7	18	5	Raw whole milk	Cowshare; CDC 2007a; Denny 2008
2005	Nov	CA	<i>Shigella</i> sp.	2		Raw milk Mexican-style queso fresco cheese	
2005	Nov	CO	<i>Campylobacter jejuni</i>	5	0	Raw whole milk	Cowshare
2005	Sep	CA	<i>Salmonella</i> Group B	12	2	Raw milk Mexican-style queso fresco cheese	
2005	Sep	CA	<i>Salmonella</i> sp.	2		Raw milk Mexican-style queso fresco cheese	
2005	Sep	CA	<i>Salmonella</i> Typhimurium	3		Raw milk Mexican-style queso fresco cheese	

Year	Month	State	Etiology	No. Ill	No. hospitalized	Source	Comments/references
2005	Sep	UT	<i>Campylobacter jejuni</i>	11	0	Raw whole milk	
2005	Sep	AZ	<i>Campylobacter jejuni</i>	13	1	Raw whole milk	
2005	Jul	WY	<i>Campylobacter jejuni</i>	11	2	Raw whole milk	
2005	Jun	TX	<i>Listeria monocytogenes</i>	12	12	Raw milk Mexican-style queso fresco cheese	
2005	May	KS	<i>Campylobacter jejuni</i>	4	0	Raw whole milk	
2005	May	IA	<i>Campylobacter jejuni</i>	33	0	Raw whole milk	
2005	Apr	OK	<i>Campylobacter jejuni</i>	11	3	Raw goat milk	
2005	Mar	WY	<i>Campylobacter jejuni</i>	3	0	Raw milk	
2005	Feb	TX	<i>Brucella</i> sp.	2	2	Raw milk Mexican-style queso fresco cheese	
2004	Nov	CA	<i>Salmonella</i> Typhimurium	12	1	Raw milk Mexican-style queso fresco cheese	1 death
2004	Jul	WY	<i>Campylobacter</i> sp.	6	1	Raw whole milk	
2004	May	WA	<i>E. coli</i> O157:H7	3	2	Raw milk Mexican-style queso fresco cheese	Restaurant
2004	Feb	IA	<i>Campylobacter jejuni</i>	32	0	Raw whole milk	
2003	Oct	MI	<i>Campylobacter jejuni</i>	6	0	Raw milk	Church/temple
2003	Oct	CA	<i>Campylobacter jejuni</i>	11	0	Raw milk Mexican-style queso fresco cheese	
2003	Aug	CA	<i>Salmonella</i> Typhimurium	50	7	Raw milk Mexican-style queso fresco cheese	
2003	May	WA	<i>Campylobacter jejuni</i> ; <i>E. coli</i> O157:H7	3	0	Raw milk	
2003	Apr	VT	<i>Campylobacter jejuni</i>	18	0	Raw milk cheese	
2003	Mar	WI	<i>Campylobacter jejuni</i>	2	0	Raw milk	
2003	Feb	TX	<i>Listeria monocytogenes</i>	12	12	Raw milk Mexican-style queso fresco cheese	1 death
2002	Nov	OH	<i>Salmonella</i> Typhimurium	107	6	Raw milk	Dairy-restaurant; CDC 2003; Mazurek 2004
2002	Sep	CA	<i>Campylobacter</i> sp.	12	0	Raw milk	

Year	Month	State	Etiology	No. Ill	No. hospitalized	Source	Comments/references
2002	Apr	KS	<i>Campylobacter jejuni</i>	46	1	Raw milk	
2002	Jan	UT	<i>Campylobacter jejuni</i>	13	0	Raw whole milk	High school athletic team dinner; Peterson 2003
2002	Jan	WA	<i>Campylobacter jejuni</i>	2	0	Raw whole milk	
2001	Nov	NC	<i>E. coli</i> O157:H7	202	11	Raw milk	School
2001	Nov	WI	<i>Campylobacter jejuni</i>	75	0	Raw whole milk	Cowshare; CDC 2002
2001	Jul	CA	<i>Brucella</i> sp	4		Homemade raw milk cheese	
2001	Apr	Multistate	<i>Salmonella</i> Newport	27	12	Raw milk cheese	
2001	Mar	MN	<i>Campylobacter jejuni</i>	4	0	Raw whole milk	
2000	Sep	NY	<i>Campylobacter jejuni</i>	39		Raw whole milk	Fair/festival
2000	Nov	NC	<i>Listeria monocytogenes</i>	12		Raw milk Mexican-style queso fresco cheese	CDC 2001; MacDonald 2005
2000	Jun	ID	<i>Campylobacter jejuni</i>	42	1	Raw milk	Camp
2000	Jun	OK	<i>Campylobacter jejuni</i>	11	1	Raw milk	
2000	Jun	MN	<i>Campylobacter</i> sp.	8	1	Raw milk	
2000	May	WI	<i>Campylobacter jejuni</i>	19	0	Raw milk	
2000	Apr	Multistate	<i>Campylobacter jejuni</i>	18	0	Homemade raw milk cheese	
2000	Feb	OK	<i>Campylobacter jejuni</i>	21	2	Raw milk	
2000	Feb	TX	<i>Campylobacter</i> sp.	2		Raw milk	
2000	Feb	ID	<i>Campylobacter jejuni</i>	4	0	Raw whole milk	
1999	Jun	WA	<i>Campylobacter</i> sp.	2		Raw milk	
1998	Oct	MA	<i>Salmonella</i> Typhimurium	47	2	Raw milk	
1998	Jul	NY	<i>Campylobacter</i> sp.	3		Raw milk	
1998	Jul	SD	<i>Campylobacter jejuni</i>	6	1	Raw milk	
1998	Jul	ME	<i>E. coli</i> O157:H7	2	2	Raw milk	
1998	Jun	WI	<i>E. coli</i> O157:H7	63	24	Raw milk cheese curds	CDC 2000

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