

## Foodborne Illness Outbreaks Asso

Date	Causative Agent	Illnesses Reported	Source
Apr. 2016	<i>Salmonella</i> Saintpaul	244	Mung bean sprouts
Jan. 2016	<i>E. coli</i> O157	7	Alfalfa sprouts Jack & The Green Sprouts (Wisconsin)
Nov. 2015- Jan. 2016	<i>Salmonella</i> Muenchen	13	Alfalfa sprouts from Sweetwater Farms (Kansas)
Sep. 2014	<i>Salmonella</i> Enteritidis	115	Bean sprouts produced by Wonton Foods
Jun.-Aug. 2014	<i>Listeria monocytogenes</i>	5	Mung bean sprouts produced by Wholesome Soy Products
May. 2014	<i>E. coli</i> O121	10	Raw clover sprouts produced by Evergreen Fresh Sprouts, LLC of Idaho are likely source
Jul. 2012	<i>Salmonella</i> Cubana	19	Sprouts, unspecified
Mar. 2012	<i>Listeria monocytogenes</i>	6	Sprouts, unspecified

Dec. 2011- Feb. 2012	<i>E. coli</i> O26	29	Raw clover sprouts at Jimmy John's restaurants is the likely cause of this outbreak
Aug. 2011	<i>Salmonella</i> Agona	7	Sprouts, unspecified
Apr.-Jul. 2011	<i>Salmonella</i> Enteritidis	27	Alfalfa sprouts and spicy sprout produced by Evergreen Fresh
May-Jul. 2011	<i>E. coli</i> O104:H4	4,075	Bean sprouts
Apr. 2011	<i>Salmonella</i> Muenchen	7	Clover sprouts
Dec. 2010- Jan. 2011	<i>Salmonella</i> Newport	9	Clover sprouts produced by Sprouters Northwest, Inc., of Kent, WA
Dec. 2010	<i>Salmonella</i> Cubana	3	Alfalfa sprouts
Nov. 2010- Feb. 2011	<i>Salmonella</i> serotype I 4,[5],12:i:-	140	Alfalfa sprouts
Aug.-Oct. 2010	<i>Salmonella</i> Bareilly	190	Bean sprouts
Mar.-Jun. 2010	<i>Salmonella</i> Newport	44	Alfalfa sprouts produced by J.H. Caldwell and Sons Inc. of Maywood, CA
Feb. 2010	unknown	4	Sprouts, unspecified

Aug. 2009	<i>Salmonella</i> Typhimurium	14	Alfalfa sprouts
Jun. 2009	<i>Salmonella</i> Bovismorbificans	42	Ready-to-eat alfalfa sprouts
Apr.-Jul. 2009	<i>Salmonella</i> Cubana	14	Onion sprouts and mixed onion/alfalfa sprout
Apr. 2009	<i>Salmonella</i> Cubana	2	Sprouts, unspecified
Feb.- May. 2009	<i>Salmonella</i> Saintpaul	256	Raw alfalfa sprouts
Feb. 2009	<i>Salmonella</i> Oranienberg	25	Alfalfa sprouts
Sep. 2008	<i>E. coli</i> O157:NM	21	Alfalfa sprouts; iceberg lettuc, unspecified
Jul. 2008	<i>Salmonella</i> Typhimurium	24	Alfalfa sprouts
Mar. 2008	<i>Listeria</i> <i>monocytogenes</i>	20	Sprouts, unspecified

Jul.-Oct. 2007	<i>Salmonella</i> Weltevreden	45	Alfalfa sprouts
Jul.-Aug. 2007	<i>Salmonella</i> Stanley	44	Alfalfa sprouts
Apr. 2007	<i>Salmonella</i> Mbandaka	15	Alfalfa sprouts
Feb. 2006	<i>Salmonella</i> Braenderup	4	Bean sprouts
Nov. 2005	<i>Salmonella</i> Oranienberg	125	Alfalfa sprouts
Nov. 2005	<i>Salmonella</i> Braenderup	2	Mung sprouts
Oct.-Dec. 2005	<i>Salmonella spp.</i>	648	Mung sprouts
Apr. 2004	<i>E. coli</i> O157:NM	2	Alfalfa sprouts
Apr. 2004	<i>Salmonella</i> Bovismorbificans	35	Raw alfalfa sprouts produced by Sprouters Northwest, Inc., of Kent, WA

Nov. 2003	<i>Salmonella</i> Chester	26	Alfalfa sprouts
Jul. 2003	<i>E. coli</i> O157:NM	13	Alfalfa sprouts
Feb. 2003	<i>Salmonella</i> Saintpaul	16	Alfalfa sprouts
Feb. 2003	<i>E. coli</i> O157:H7	7	Alfalfa sprouts
Jan. 2003	<i>E. coli</i> O157:H7	20	Alfalfa sprouts
Jul. 2002	<i>E. coli</i> O157:H7	5	Alfalfa sprouts
Apr. 2001	<i>Salmonella</i> Entertidis	35	Mung sprouts
Feb. 2001	<i>Salmonella</i> Kottbus	32	Alfalfa sprouts
Jan. 2001	<i>Salmonella</i> Entertidis	22	Mung sprouts
Feb.-Mar. 2001	<i>Salmonella</i> Enteritidis	84	Mung sprouts

Oct. 2001	unknown	2	Alfalfa sprouts
Nov. 2000	<i>S. Enteritidis</i> phage type 4b	12	Bean sprouts
May. 2000	<i>Salmonella enterica</i>	3	Alfalfa sprouts (suspected)
2000	<i>Salmonella</i> Enteritidis	75	Mung sprouts
Apr.-Jun. 2000	<i>Salmonella</i> Enteritidis	12	Mung sprouts
Aug.-Sep. 1999	<i>Salmonella</i> Muenchen	157	Alfalfa sprouts
May. 1999	<i>Salmonella</i> Saintpaul	36	Clover sprouts
Jan. 1999	<i>Salmonella</i> Mbandaka	83	Alfalfa sprouts

Jan. 1999	<i>Salmonella</i> Typhimurium	112	Clover sprouts
Aug.- Sep. 1999	<i>S. paratyphi</i> B var java	51	Alfalfa sprouts
Jun. 1998	<i>E. coli</i> O157:NM	8	Alfalfa sprouts
May. 1998	<i>Salmonella</i> Havana and Cubana	40	Alfalfa sprouts (Havana suspected)
Jun.-Jul. 1997	<i>E. coli</i> O157:H7	82	Alfalfa sprouts
1997	<i>Salmonella</i> Infantis and Anatum	109	Alfalfa sprouts

Sep. 1997-Jul. 1998	<i>Salmonella</i> Senftenberg	60	Alfalfa sprouts
1997	<i>Salmonella</i> Meleagridis	78	Alfalfa sprouts
1997	<i>E. coli</i> O157:H7	126	Radish sprouts
May.-Jul. 1996	<i>Salmonella</i> Meleagridis and Montevideo	500	Alfalfa and clover sprouts
1996	<i>E. coli</i> O157:H7	6,000	Radish sprouts



1995-1996	<i>Salmonella</i> Newport	133	Alfalfa sprouts
1995	<i>Salmonella</i> Stanley	242	Alfalfa sprouts
1994	<i>Salmonella</i> Newport	154	Alfalfa sprouts
1994	<i>Salmonella</i> Bovismorbificans	595	Australian alfalfa sprouts seed
Oct. 1990	<i>Salmonella</i> Anatum	15	Alfalfa sprouts

Oct. 1990	unknown	32	Alfalfa sprouts, cucumber, lettuce
1989	<i>Salmonella</i> Goldcoast	31	Cress sprouts
1988	<i>Salmonella</i> Saintpaul and Virchow PT34 (7cases)	143	Mung sprouts
1973	<i>Bacillus cereus</i>	4	Soy, cress, mustard sprouts

## ociated with Sprouts

### Country of Outbreak

#### Australia.:

<http://www.adelaidenow.com.au/news/south-australia/extra-five-cases-in-sa-for-bean-sprout-contamination/news-story/a3579929ba487a9acbcfaa46b58afcb7>

#### Minnesota, U.S.:

<http://www.mprnews.org/story/2016/02/24/minnesota-probes-illnesses-linked-to-alfalfa-sprouts>

#### Multistate, U.S.:

[http://www.cdc.gov/salmonella/enteritidis-11-14/;](http://www.cdc.gov/salmonella/enteritidis-11-14/)  
<http://www.fda.gov/Food/RecallsOutbreaksEmergencies/Outbreaks/ucm424426.htm>

#### Multistate, U.S.:

[http://www.cdc.gov/salmonella/enteritidis-11-14/;](http://www.cdc.gov/salmonella/enteritidis-11-14/)  
<http://www.fda.gov/Food/RecallsOutbreaksEmergencies/Outbreaks/ucm424426.htm>

#### Illinois and Michigan, U.S.:

[http://www.cdc.gov/listeria/outbreaks/bean-sprouts-11-14/index.html;](http://www.cdc.gov/listeria/outbreaks/bean-sprouts-11-14/index.html)  
<http://www.fda.gov/Food/RecallsOutbreaksEmergencies/Outbreaks/ucm422562.htm>

#### Washington and Idaho, U.S.:

[http://www.cdc.gov/ecoli/2014/o121-05-14/index.html;](http://www.cdc.gov/ecoli/2014/o121-05-14/index.html)  
<http://www.doh.wa.gov/Newsroom/2014NewsReleases/14070CloverSproutsSourceofEColiOutbr>

#### Multistate, U.S.:

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

#### Multistate, U.S.:

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Multistate, U.S.:**  
<http://www.cdc.gov/ecoli/2012/O26-02-12/index.html>;  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Kansas, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Idaho, Montana, North Dakota, New Jersey and Washington, U.S.:**  
<http://www.cdc.gov/salmonella/sprouts-enteritidis0611/070611/index.html>;

**Europe, Canada and U.S.:**  
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6250a3.htm>; Buchholz, U., Bernard, H., Werber, D., Böhmer, M. M., Remschmidt, C., Wilking, H., ... & Kühne, M. (2011). German outbreak of Escherichia coli O104: H4 associated with sprouts. *New England Journal of Medicine*, 365(19), 1763-1770. <https://www-s.med.illinois.edu/m2/epidemiology/LiteratureCriteria/>

**Michigan, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Oregon and Washington, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>;  
[http://www.doh.wa.gov/Portals/1/Documents/1500/2011/Final\\_Report\\_10011111](http://www.doh.wa.gov/Portals/1/Documents/1500/2011/Final_Report_10011111)

**Multistate, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Multistate, U.S.:**  
<http://www.cdc.gov/salmonella/i4512i-021011/index.html>;

**U.K.:**  
[http://www.hpa.org.uk:80/webw/HPAweb&HPAwebStandard/HPAweb\\_C/1287143210927?p=1](http://www.hpa.org.uk:80/webw/HPAweb&HPAwebStandard/HPAweb_C/1287143210927?p=1)

**Multistate, U.S.:**  
<http://www.cdc.gov/salmonella/newport/>;  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Colorado, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Michigan, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

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**Canada:**

[http://www.bccdc.ca/resourcematerials/newsandalerts/healthalerts/2009HealthAlerts/SalmonellaCubanaOutbreak\\_aug24.htm](http://www.bccdc.ca/resourcematerials/newsandalerts/healthalerts/2009HealthAlerts/SalmonellaCubanaOutbreak_aug24.htm)

**Minnesota, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Multistate, U.S.:**

<http://www.cdc.gov/salmonella/saintpaul/alfalfa/>;  
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5818a4.htm>

**Multistate, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Colorado, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Multistate, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/default.aspx>;  
<http://www.fda.gov/safety/recalls/archiverecalls/>

**Multistate, U.S.:**

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**Sweden:** Werner S, Boman K, Einemo I, Erntell M, de Jong B, Lindqvist A, Löfdahl M, Löfdahl S, Meeuwisse A, Ohlen G, Olsson M, Stamer U, Sellström E, Andersson Y. Outbreak of Salmonella Stanley in Sweden associated with alfalfa sprouts, July-August 2007. Euro Surveill. 2007;12(42):pii=3291. Available online: <http://www.eurosurveillance.org/ViewArticle.aspx>

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<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Australia:**  
<http://www.health.gov.au/internet/main/publishing.nsf/Content/cda-cdi3003b.htm>

**Massachusetts, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Canada:**  
<http://news.ontario.ca/archive/en/2005/12/14/Update-on-Salmonella-Outbreak.html>; Outbreak of *Salmonella enteritidis* phage type 13 associated with mung bean sprouts in Ontario, 2005. Outbreak Investigation. May 17. 2006.  
<http://www.sproutnet.com/pdfs/Toronto-Mung->

**Georgia, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Oregon and Washington, U.S.:**  
<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>;  
<http://www.fda.gov/NewsEvents/Newsroom/Pres>

**Multistate, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Colorado, U.S.:**

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**Multistate, U.S.:**

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**Multistate, U.S.:**

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**California, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Florida, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Multistate, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Hawaii, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default>

**Canada:** Honish, L., & Nguyen, Q. (2001). Outbreak of Salmonella enteritidis phage type 913 gastroenteritis associated with mung bean sprouts--Edmonton, 2001. *Canada communicable disease report= Relevé des maladies transmissibles au Canada*, 27(18), 151. <http://www.sproutnet.com/Outbreak-of->

**Florida, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>

**Netherlands:** van Duynhoven, Y. T., Widdowson, M. A., de Jager, C. M., Fernandes, T., Neppelenbroek, S., van den Brandhof, W., ... & van Pelt, W. (2002). Salmonella enterica serotype Enteritidis phage type 4b outbreak associated with bean sprouts. Emerging infectious diseases, 8(4), 440.

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**Multistate, U.S.:**

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**Canada:** Harb, J., Isaacs, S., Fyfe, M., Crowe, L., Slater, B., Ahmed, R., ... & Hockin, J. (2003). Outbreak of Salmonella enteritidis phage type 11B in the provinces of Alberta and Saskatchewan, June 2000. Canada communicable disease report= Relevé des maladies transmissibles au Canada, 29(14), 125. <http://www.sproutnet.com/Outbreak-of->

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<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>; Proctor, M. E., Hamacher, M., Tortorello, M. L., Archer, J. R., & Davis, J. P. (2001). Multistate outbreak of Salmonella serovar Muenchen infections associated with alfalfa sprouts grown from seeds pretreated with calcium hypochlorite. Journal of clinical

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**Colorado, U.S.:**

<http://wwwn.cdc.gov/foodborneoutbreaks/Default.aspx>; Brooks, J. T., Rowe, S. Y., Shillam, P., Heltzel, D. M., Hunter, S. B., Slutsker, L., ... & Luby, S. P. (2001). Salmonella Typhimurium infections transmitted by chlorine-pretreated clover sprout seeds. American journal of epidemiology, 154(11), 1020-1028.

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**Multistate, U.S.:**

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**Michigan and Virginia, U.S.:** Breuer, T., Benkel, D. H., Shapiro, R. L., Hall, W. N., Winnett, M. M., Linn, M. J., ... & Team, I. (2001). A multistate outbreak of Escherichia coli O157: H7 infections linked to alfalfa sprouts grown from contaminated seeds. Emerging infectious diseases, 7(6), 977.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2631892/pdf/11747724.pdf>;

<http://www.cdc.gov/mmwr/preview/mmwrhtml/00>

**Kansas and Missouri, U.S.:** Taormina, P. J., Beuchat, L. R., & Slutsker, L. (1999). Infections associated with eating seed sprouts: an international concern. Emerging Infectious Diseases, 5(5), 626.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2627711/pdf/10511518.pdf>; Glynn, M. K., Patrick, S., & Wuhib, T. (1998, April). When health food isn't so healthy—an outbreak of Salmonella serotypes Anatum and Infantis associated with eating contaminated sprouts, Kansas and Missouri, 1997. In 47th Annual Epidemic

**California and Nevada, U.S.:** Mohle-Boetani, J. C., Farrar, J. A., Werner, S. B., Minassian, D., Bryant, R., Abbott, S., ... & Vugia, D. J. (2001). Escherichia coli O157 and Salmonella infections associated with sprouts in California, 1996–1998. *Annals of Internal Medicine*, 135(4), 239-247.

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**Washington, U.S.:**

[http://www.cdc.gov/outbreaknet/pdf/surveillance/1990\\_linelist.pdf](http://www.cdc.gov/outbreaknet/pdf/surveillance/1990_linelist.pdf)

**Washington, U.S.:**

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2627711/pdf/10511518.pdf>; Joce, R., O'Sullivan, D. G., Strong, C., Rowe, B., Hall, M. L. M., & Threlfall, E. J. (1990). A national outbreak of *Salmonella* Gold-Coast. *Commun Dis Rep CDR*

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