

Comment Report

SSB 1107

A bill for an act relating to raw milk, by providing for the production of raw milk at certain dairies, the manufacture of products using raw milk, and the labeling and distribution of raw milk and manufactured products, and making penalties applicable.(See SF 315.)

Subcommittee Members: Schultz-CH, Bisignano, Westrich

Date: 02/01/2023

Time: 01:30 PM

Location: Room 217 Conference Room

Name:	Jennifer R
Comment:	I support this bill.
Name:	Bethany Niermeyer
Comment:	Support! Iowans are smart enough to decide if aw milk is right for themselves or their families. Let us decide!
Name:	Patrick D
Comment:	I support this bill!!
Name:	Esther Arkfeld
Comment:	I support this bill. Iowa wants to join the other 45 states who already enjoy this freedom including the top 10 dairy states!
Name:	Allison B
Comment:	I support this bill
Name:	Keela Moats
Comment:	I support this bill! Give us the right to choose what we think is best for our families.
Name:	LaRay Nazario
Comment:	I support this bill! It is our God given right to decide what we consume.
Name:	Holli Staack
Comment:	I support this bill! Give us the right to choose what we think is best for our families.
Name:	Kaleb Staack
Comment:	I fully support this bill
Name:	Rachael Griffith
Comment:	I support SSB1107!
Name:	Jennifer Nazario
Comment:	I support this bill. People drank raw milk for thousands of years, and it is better for you! Let each person chose whats right for their family!!!
Name:	Jason Mcneely
Comment:	I support this bill
Name:	Jeremy Arkfeld

Comment: I support this bill!

Name: Bryce Moats

Comment: I support this bill.

Name: Kara Larson

Comment: I support raw milk!

Name: Elizabeth Moats

Comment: I support this bill.

Name: Dawness Fank

Comment: I support this bill

Name: Danielle Raber

Comment: Fully support this bill!!

Name: Cortney Landers

Comment: I support this bill!

Name: Emilee Ackerman

Comment: I support this bill! Would love to be able to have access to raw dairy on the daily!

Name: Tom Cory

Comment: I support this study bill

Name: Kayleigh Youngman

Comment: I fully support this bill!

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Comment: I fully support this bill!

Name: Amy Seegers

Comment: While I think the bill for the sale of raw milk is long overdo I dont like that its limited to certain dairies. If we are able to make the decision to buy raw milk, why do you get to decide where I buy it from? What kind of limitations and requirements for the farmers will you be putting in place? This is not a win for raw milk sales.

Name: Jessica Dickau

Comment: I support this bill !

Name: Kelsey Brunt

Comment: I support this bill

Name: Kayleen Forrester

Comment: I support this bill!

Name: Quintin Forrester

Comment: I support the bill

Name: Galadriel Miller

Comment: I support this bill!

Name: Daniel Means

Comment: I support the bill but am somewhat disappointed in its limitations

Name: Desiree Hoye

Comment: I support this bill

Name: Darren Butler

Comment: I support this measure..

Name: Annette Abusharkh

Comment: I support this bill. And I support Iowa farms being able to provide raw dairy for Iowans. I can visit my family in the states surrounding Iowa and drink raw milk there, but I can't get it in my own state. We need people to advocate for the people of Iowa instead of for big dairy and big Ag. We appreciate the efforts to make this change permanent to let the people of Iowa choose for ourselves.

Name: Edith Helmke

Comment: I support this bill.

Name: Cassidy Gillen

Comment: I support this bill! This would make such a huge difference!

Name: Maddison Dyson

Comment: I support this bill.

Name: Annette Winger

Comment: I support this bill!

Name: Caitlin McMurray

Comment: I support this bill. Individuals should have the right to feed themselves and their families natural, unadulterated products including raw milk. The processed food industry is destroying our health.

Name: Anne Hudson

Comment: We should be allowed to make our own decisions around our health and what we eat! Its not the governments job to take away our choices by making things like raw milk illegal

Name: Britt G

Comment: I support this bill. I could buy raw milk for animal consumption and/ or soap making in Texas. No reason for farmers not to be able to sell raw milk here in Iowa.

Name: Caitlin Groeneveld

Comment: I support this bill!

Name: Nathan Brace

Comment: Please support this bill to allow freedom to purchase raw milk in Iowa. Give your citizens their freedoms back.

Name: Christy Gebhart

Comment: I support this bill.

Name: Bobby Bill

Comment: I support this bill!

Name: Jennifer Leonhard

Comment: I support this bill. Iowa is one of only 5 states that don't allow for the sale of raw milk. Let us join the other states who under the economic, agricultural, and

nutritional benefits of raw milk.

Name: Natalia Arnold

Comment: I support bill SSB1107! Please allow Iowans to make their own decisions on how to best nourish their bodies.

Name: Elizabeth K

Comment: I support this bill. Iowans having access to raw milk is long overdue.

Name: Cassandra Shipley

Comment: I support this bill. Let us choose what we want for our family. And it would help the small dairy farmers. We also need to think about the small Dairy farms and farmers in this state.

Name: Rose White

Comment: I support this bill. If you had ever used raw milk you would too it is an amazing healthy product we should be able to freely buy without driving to a surrounding state.

Name: Kathy Campbell

Comment: I support this bill!!

Name: Bret Francis

Comment: I support this bill!

Name: Aly Kalra

Comment: Let me decide what is right for my family! I support this bill!

Name: Wendy Van Wyk

Comment: I support this bill.

Name: Carolyn Israel

Comment: I support this bill.

Name: Courtney Collier

Comment: I support this bill. We can make our own informed decisions about what foods we choose to consume. This is long overdue. Look at all of the states which allow access to raw milk sales. We cant claim to be about freedom in Iowa and then tell people what they can and cannot eat.

Name: Jennifer Butterbaugh

Comment: I support this bill.

Name: Lauren Young

Comment: Those that want raw milk are already getting it from out of state. Lets allow the sale of raw milk in Iowa so we can support OUR farmers. Let the people decide what is right for them to consume. Many people are sensitive or allergic to pasteurized dairy but can handle raw just fine. Lets make raw milk easily available for those individuals.

Name: Cynthia Brookshire

Comment: I support this bill!!!!!!

Name: Amy Ayala

Comment: I support this bill! We should have the right to choose whats best for our families in Iowa.

Name: Ricky Esquivel

Comment: I support this bill!

Name: Kathe Harlow

Comment: I support this bill.

Name: Sara Ferneding

Comment: I am in favor of this bill. The legal selling of raw milk in Iowa is long overdue. I cannot understand why a state so substantially rooted in agriculture would hinder their own farmers from selling their raw milk goods when 40+ other states allow their citizens to do so. Iowa needs to step up & get this passed. This has right has been denied to Iowans for too long. Not only for producers but for consumers. Please pass this bill right across the finish line this year!

Name: Leslie Mendez

Comment: I support this bill!!

Name: Courtney Ruge

Comment: I support this bill!

Name: Keenan Beemer

Comment: I am for this bill and the freedom of choice to feed our families what each family deems is best.

Name: Courtney Williams

Comment: I have 4 children whose bodies don't tolerate store milk. Three of them can drink raw milk without adverse effects! They deserve to be able to have milk instead of nut water. Pass the raw milk bill!

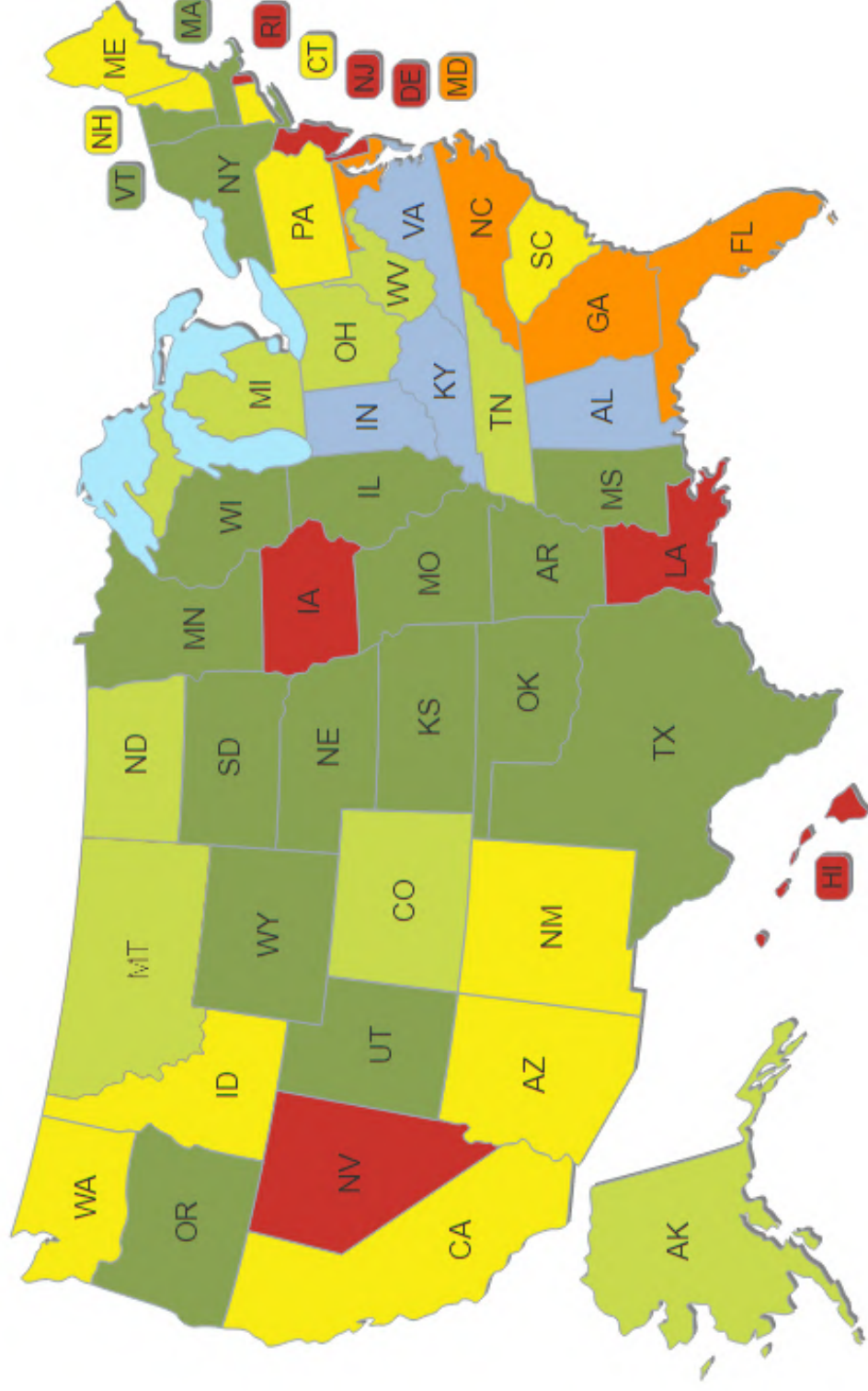
Name: Violet Ahrenholtz

Comment: I support this bill. Farmers should be allowed to make off farm milk sales. We are an ag state and we have brilliant farmers. We can figure this one out so that the demand for this product is getting met by IOWAN farmers instead of the farmers in our surrounding states. Please See the attached map to see how Iowa limits our farmers as compared to other states in our nation.

Raw Milk Nation – Interactive Map

State-by-State* Review of Raw Milk Laws

- Retail Sale Legal
- Farm Sales Legal
- Herd Shares Legal by Statute, Regulation or Court Decision
- No Law on Herd Shares**
- Legal as Pet Food
- Raw Milk Sales Illegal



Name: Margaret Coleman

Comment: I support this bill and offer evidence that rates of outbreaks, illnesses, and hospitalizations and deaths are not increasing for raw milk. Also, a recently published systematic review reported higher risk for pasteurized milk.

TESTIMONY ON RAW MILK BENEFITS AND RISKS FOR IOWA SUBCOMMITTEE HEARING ON SENATE STUDY BILL 3126

Peg Coleman, Medical Microbiologist/Risk Analyst



Tuesday 1 February 2023

EXPERIENCE AND CREDENTIAL HIGHLIGHTS

Margaret E. (Peg) Coleman, MS²

- Medical microbiologist with 30+ years risk analyst experience with USDA and consulting companies, two graduate degrees
 - Medical Microbiology (U. Georgia, College of Veterinary Medicine)
 - Biology/Biochemistry (Utah State University)
- Resume documents extensive publications in peer-reviewed literature on microbial benefits and risks (1998 – 2022)
- Expert certified in microbial ecology and microbial risk assessment for multiple court proceedings
- Fellow of Society for Risk Analysis, Advisory Board member of the Raw Milk Institute

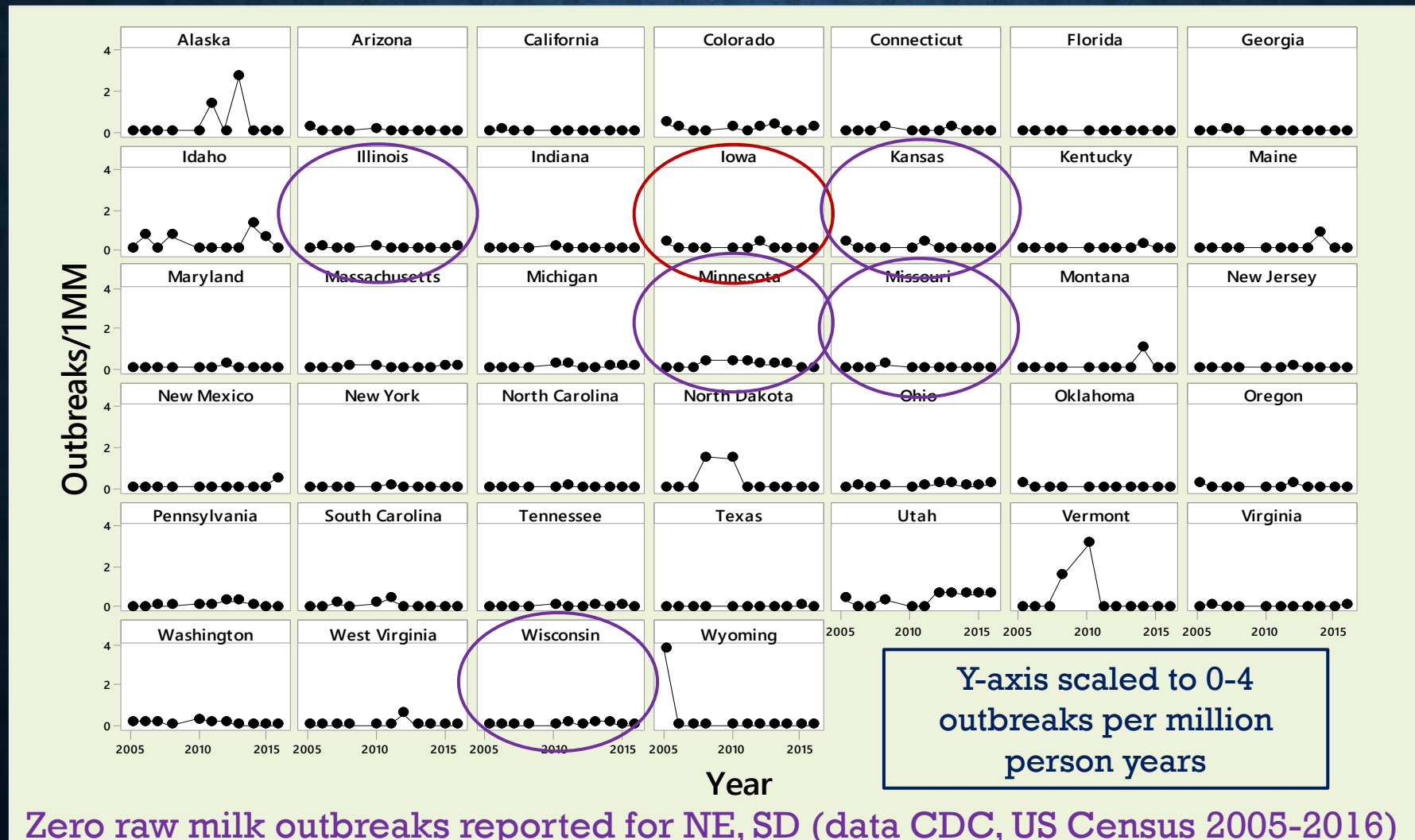
peg@colemanscientific.org; <http://www.colemanscientific.org/>

RECENT EVIDENCE CONTRADICTS MISCONCEPTIONS ABOUT RAW MILKS

- The assumption of 20th century thinking that breastmilk and cow milk are sterile is a MYTH replaced by 21st century science on milk microbiota
- Milk microbiota now known to contribute to healthy gut, immune, neural, and respiratory systems (Coleman et al., 2021a,b; Dietert et al., 2022)
- *Pathogens* grows faster in milk AFTER pasteurization kills competing natural microbes; increased rates with increasing temperature (Stasiewicz et al., 2014)
- Recent body of scientific evidence including outbreak rates, predictive microbiology experiments, and human clinical studies informs estimates of benefits and risks

INDEPENDENT STATISTICAL ANALYSIS BY STATE:

No Increasing Trend for Raw Milk Outbreak Rates



Similarly, no increasing trend for rates of illness and hospitalization, figures appended

SOME PATHOGEN-SPECIFIC DATA FROM CDC DATASET (2005–2017)

	# ‘campy’ outbreaks	# ‘campy’ illnesses	# ‘listeriosis’ outbreaks	# ‘listeriosis’ illnesses
Raw Milk	99	1266	1	2 (2 deaths)
Pasteurized Milk	2	1844	1	5 (3 deaths)

QUANTITATIVE MICROBIAL RISK ASSESSMENTS

Estimated Risks for Listeriosis in Milks

FDA/FSIS (2003); update by independent researchers (Latorre et al., 2011)

Pasteurized Milk

- 90.8 deaths per year
(**high** risk)
- 10^{-9} per serving or
1 case in 1,000,000,000
exposures (**moderate** risk)

Unpasteurized Milk

- 3.1 deaths per year
(**moderate** risk)
- 7×10^{-9} per serving or
7 cases in 1,000,000,000
exposures (**high** risk)
- $\sim 2 \times 10^{-15}$ per serving or
2 cases in
1,000,000,000,000,000 exposures
(**very low** risk)

FDA/FSIS

Latorre

EXTREMELY LOW PERCENTAGE POSITIVES FROM RAW MILK MONITORING PROGRAMS IN US AND AROUND THE WORLD

Recent Results from Pathogen Testing for Raw Milk from 6 Countries	<i>Campylobacter</i>	<i>E. coli</i> O157:H7 or EHECs	<i>L. monocytogenes</i>	<i>Salmonella</i>
PERCENTAGE POSITIVE	93/9,740 (0.01%)	26/10,934 (<0.01%)	40/9,118 (<0.01%)	14/7,976 (<0.01%)

From Table 1 in peer-reviewed publication by Dietert and colleagues (2022; full table appended)

NO GROWTH OF MAJOR PATHOGENS IN REFRIGERATED RAW MILK

- Pathogen growth study conducted by an independent certified laboratory (FSNS, 2022) documents **no growth** of four major pathogens (*Campylobacter*, *E. coli* 0157:H7, *L. monocytogenes*, *Salmonella*) in **refrigerated raw milk** (4.4 C or 40 F)
- Preparation of a manuscript based on this FSNS study is underway for submission to a peer review journal later this year

REASONING FROM AVAILABLE EVIDENCE

- One CA dairy produced ~1,352,000 gallons of fluid raw milk for retail markets from 2018 to 2020, representing about 20,480,000 servings of 250 mL
- No outbreaks of illness associated with raw milk reported in CA for this period
- Available data consistent with a risk of illness less than 1 in over 20 million servings for retail raw milk consumers in CA

SOME RECENT PEER-REVIEWED STUDIES

- **2021a:** Coleman, M.E., Dietert, R.R., North, D.W., Stephenson, M.M. Enhancing Human Superorganism Ecosystem Resilience by Holistically ‘Managing Our Microbes’. *Applied Microbiology* 1(3): 471-497. <https://doi.org/10.3390/applmicrobiol1030031>.
- **2021b:** Coleman, M.E., North, D.W., Dietert, R.R., Stephenson, M.M. Examining Evidence of Benefits and Risks for Pasteurizing Donor Breastmilk. *Applied Microbiology* 1(3):408-425. <https://doi.org/10.3390/applmicrobiol1030027>.
- **2022.** Dietert, R.R., Coleman, M.E., North, D.W., Stephenson, M.M. Nourishing the Human Holobiont to Reduce the Risk of Non-Communicable Diseases: A Cow’s Milk Evidence Map Example. *Applied Microbiology* 2(1):25-52. <https://doi.org/10.3390/applmicrobiol2010003>.
- **2022.** North, D.W., Coleman, M.E., Hull, R.R. Need for International Workshops to Deliberate Evidence of Benefits and Risks of Raw Milks. Accepted in *Corpus Journal of Dairy and Veterinary Science*.
- **2022.** Azzolina, N.A. and Coleman, M.E. Detailed Statistical Analysis of CDC Outbreaks Associated with Raw and Pasteurized Dairy (2005-2019). In preparation.

BACKUP SLIDES

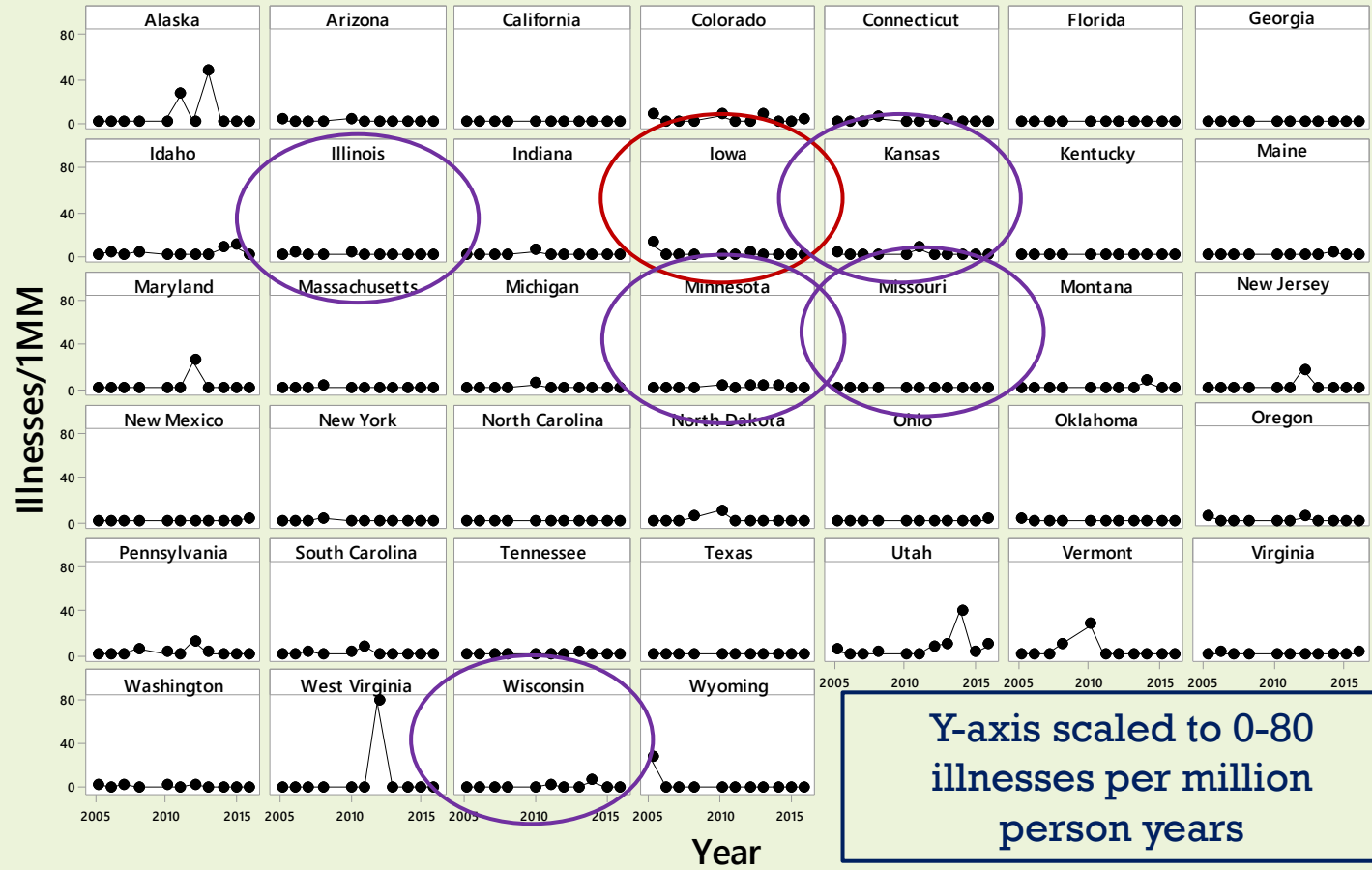
TABLE 1, DIETERT ET AL., 2022

Country (Reference)	Dates (State if US)	<i>Campylobacter</i>	<i>E. coli</i> O157:H7 or EHECs	<i>L. monocytogenes</i>	<i>Salmonella</i>
Canada (BCHA, 2021; website listed above)	2015-2021	0/192	0/192	0/192	0/192
Poland (Andrzejewska et al., 2019, [91])	2014-2018	0/113 vending machines; 26/221 (12%) <i>C. jejuni</i> , directly from farmers	Not Tested	Not Tested	Not Tested
UK (McLauchlin et al, 2020, [92])	2017-2019	18/635 (2.8%)	0/58 O157; 3/304 EHEC (0%, 1%)	1/642 (0.2%)	3/622 (0.5%)
UK (Willis et al., 2018, [93])	2014 – 2016 (routine monitoring)	2/770 (<0.01%)	2/770 (<0.01%)	2/770 >100 cfu/mL (<0.01%)	0/770
US State Monitoring (database of FOIA source data from licensed farms; Stephenson and Coleman, 2021, [90])	2009-2014 (CA)	0/61	0/61	0/61	0/61
	2009-2014 (NY)	6/783 (0.7%)	0/782	1/781 (0.1%)	0/780
	2009-2014 (TX)	4/601 (0.7%)	0/596	4/596 (0.7%)	11/606 (1.8%)
	2012-2015 (WA)	0/497	0/502 2/501 (0.4%)	0/502	0/494
Germany (Berge & Baars, 2020, [84])	2001-2015 (VZM)	7/2,352 (0.3%)	17/2,737 (0.7%)	30/2,999 (1%)	0/3,367
Germany (Berge & Baars, 2020, [84])	2001-2015 (not for direct consumption raw, pre- pasteurized)	17/2,258 (0.8%)	82/5,433 (1.5%)	52/2,355 (2.2%)	0/1,084
Finland (Castro et al., 2017, [94])	2013-2015	Not Tested	Not Tested	5/105 retail bottles (4.8%) 2/115 bulk tanks (1.7%)	Not Tested
Finland (Jaakkonen et al., 2019, [95])	2014-2015	0/789	0/789 O157:H7; 2/789 O121:H19 (<1%)	Not Tested	Not Tested
US (Del Collo et al., 2017, [96])	2014 (17 states)	13/234 culture; 27/234 PCR (6%; 12%)	Not Tested	Not Tested	Not Tested
OVERALL PERCENTAGE POSITIVE		93/9,740 (0.01%)	26/10,934 (<0.01%)	40/9,118 (<0.01%)	14/7,976 (<0.01%)

INDEPENDENT STATISTICAL ANALYSIS BY STATE:

No Increasing Trend for Illness Rates

Verified by Mann-Kendall Test for Trend

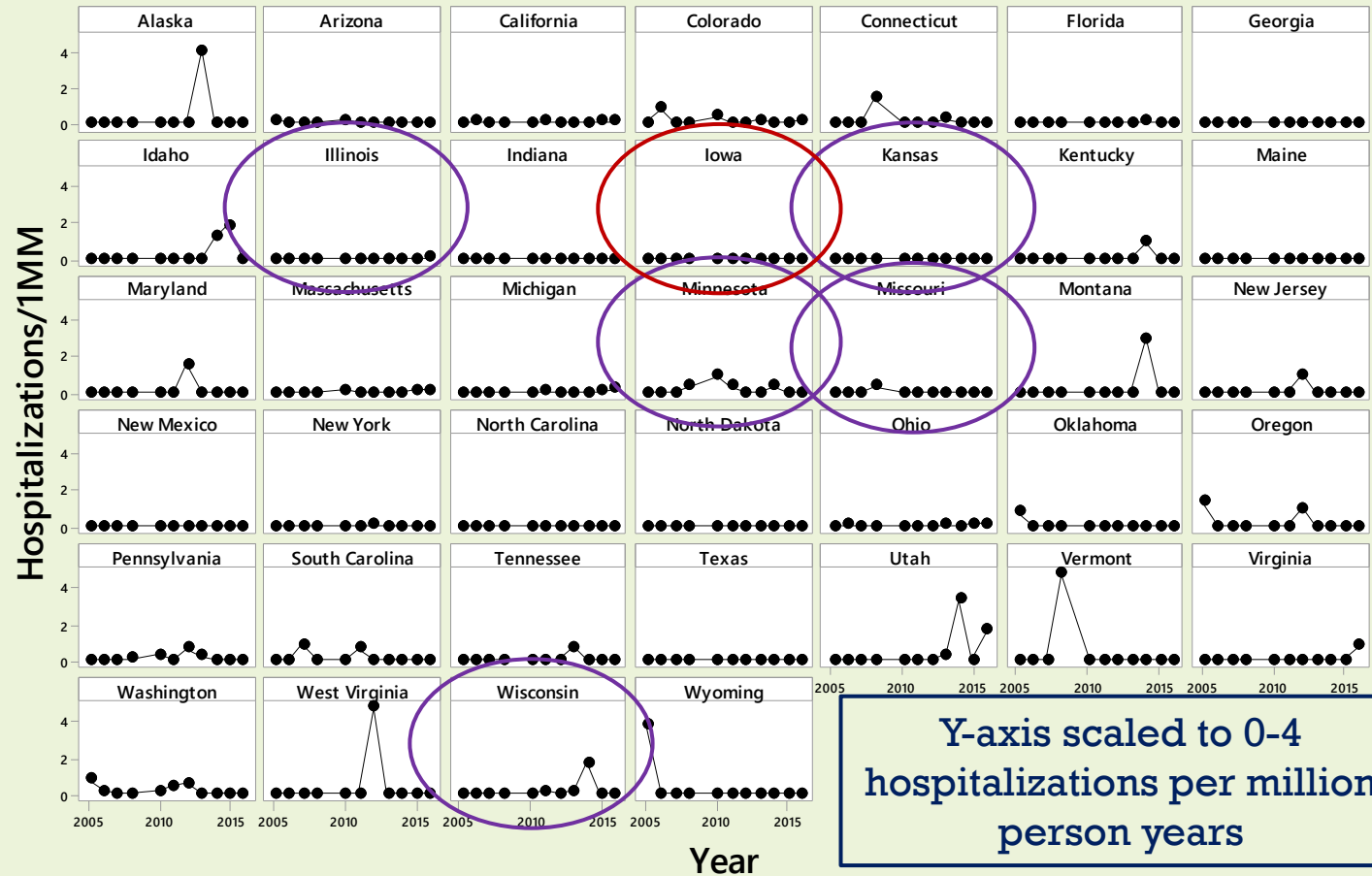


Zero raw milk outbreaks reported for NE, SD (CDC data, 2005-2016)

INDEPENDENT STATISTICAL ANALYSIS BY STATE:

No Increasing Trend for Hospitalization Rates

Verified by Mann-Kendall Test for Trend



Zero raw milk outbreaks reported for NE, SD (CDC data, 2005-2016)

Name: peg coleman

Comment: I support this bill as a medical microbiologist and microbial risk assessor. I present evidence that rates of outbreaks, illnesses and hospitalizations and deaths are NOT increasing for raw milk. Also, pasteurized milk has higher risk of fatal illness from a recently published systematic review.