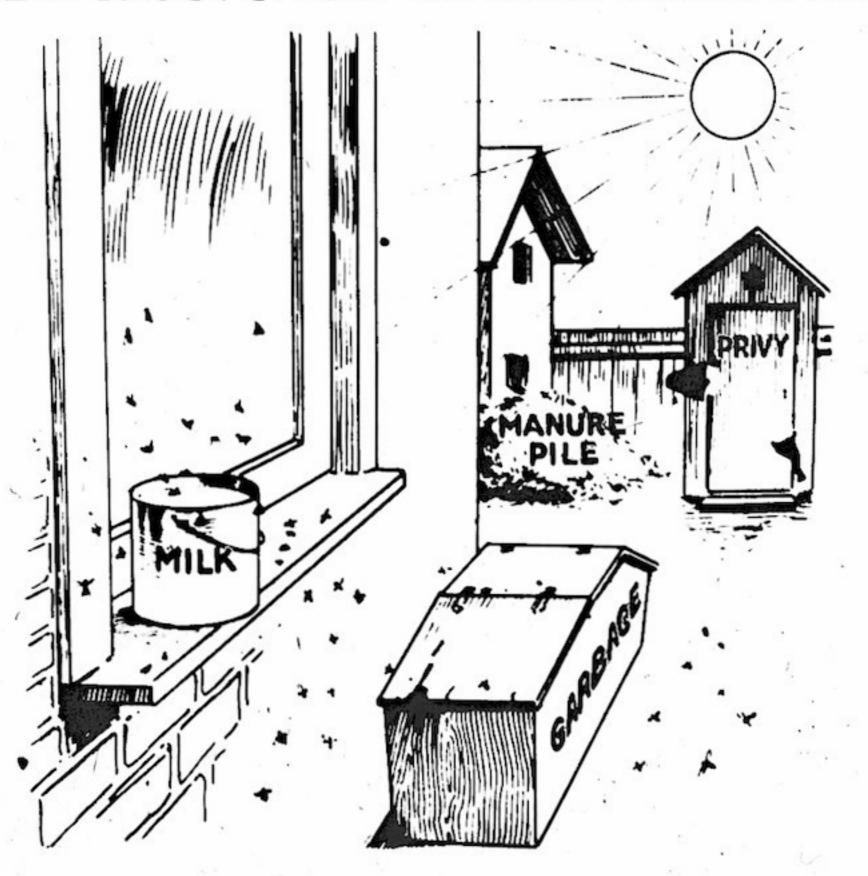
THEW RONGWAY TO KEEP BABY'S MILK



Raw Milk: Personal Choice from a Public Health Perspective

Bill Keene Oregon Public Health Division



raw milk is...

dangerous

spiritual

bullshit

deadly

silly

dirty

indulgent

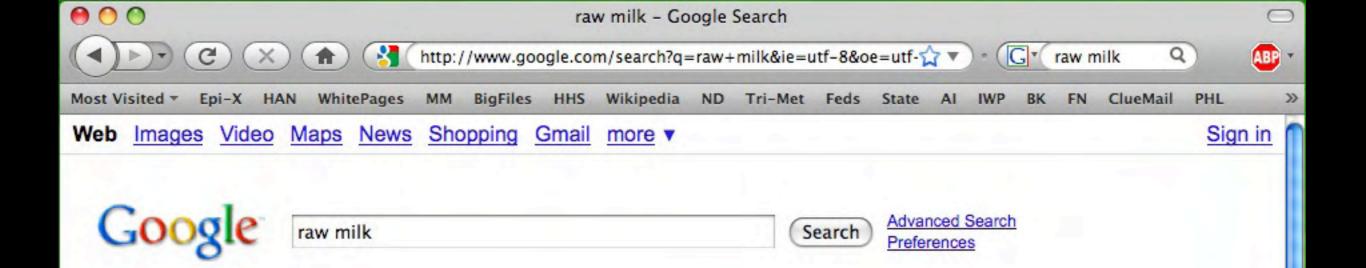
expensive

natural healthy delicious

illegal

irrelevant

for kooks



Web Show options...

Results 1 - 10 of about 5,920,000 for raw milk. (0.16 seconds)

Raw Milk Facts...The Raw Milk Information Guide You Can Trust!

Curious about organic **raw milk** and its health benefits? This site will answer all questions you're likely to have about unpasteurized **milk** and then some! www.raw-milk-facts.com/ - Cached - Similar

Find Raw Milk What's in Raw Milk

Health Benefits Kefir

Raw Milk Safety Raw Medicine
Raw Milk FAQ About Raw Milk

More results from raw-milk-facts.com »

Want Raw Milk? Find it. Demand it!

Don't Know Where To Turn To Find Raw Milk? The Answers Are Here! www.raw-milk-facts.com/Want_Raw_Milk.html - Cached - Similar

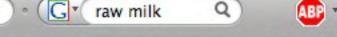
A CAMPAIGN FOR REAL (RAW) MILK!

A CAMPAIGN FOR REAL MILK: Consumption of clean, unpasteurized, whole milk, and additive-free organic dairy products from old fashioned pasture-fed cows ... www.realmilk.com/ - Cached - Similar

Where Can I Find Real (Raw) Milk?

RAW MILK CONSUMERS PLEASE NOTE: This list of raw milk sources probably represents only a portion of the raw milk producers in your state. ...

www.realmilk.com/where2.html - Cached - Similar



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raw-milk-facts.com

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Milk History

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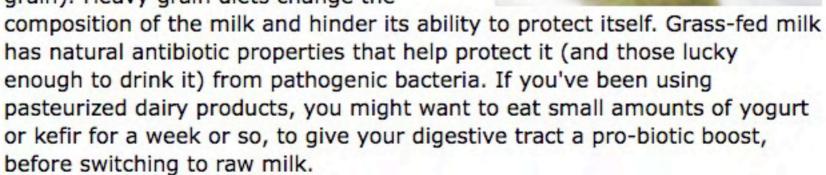
Answers to some frequently asked questions about raw milk:

Q: Is all raw milk the same?

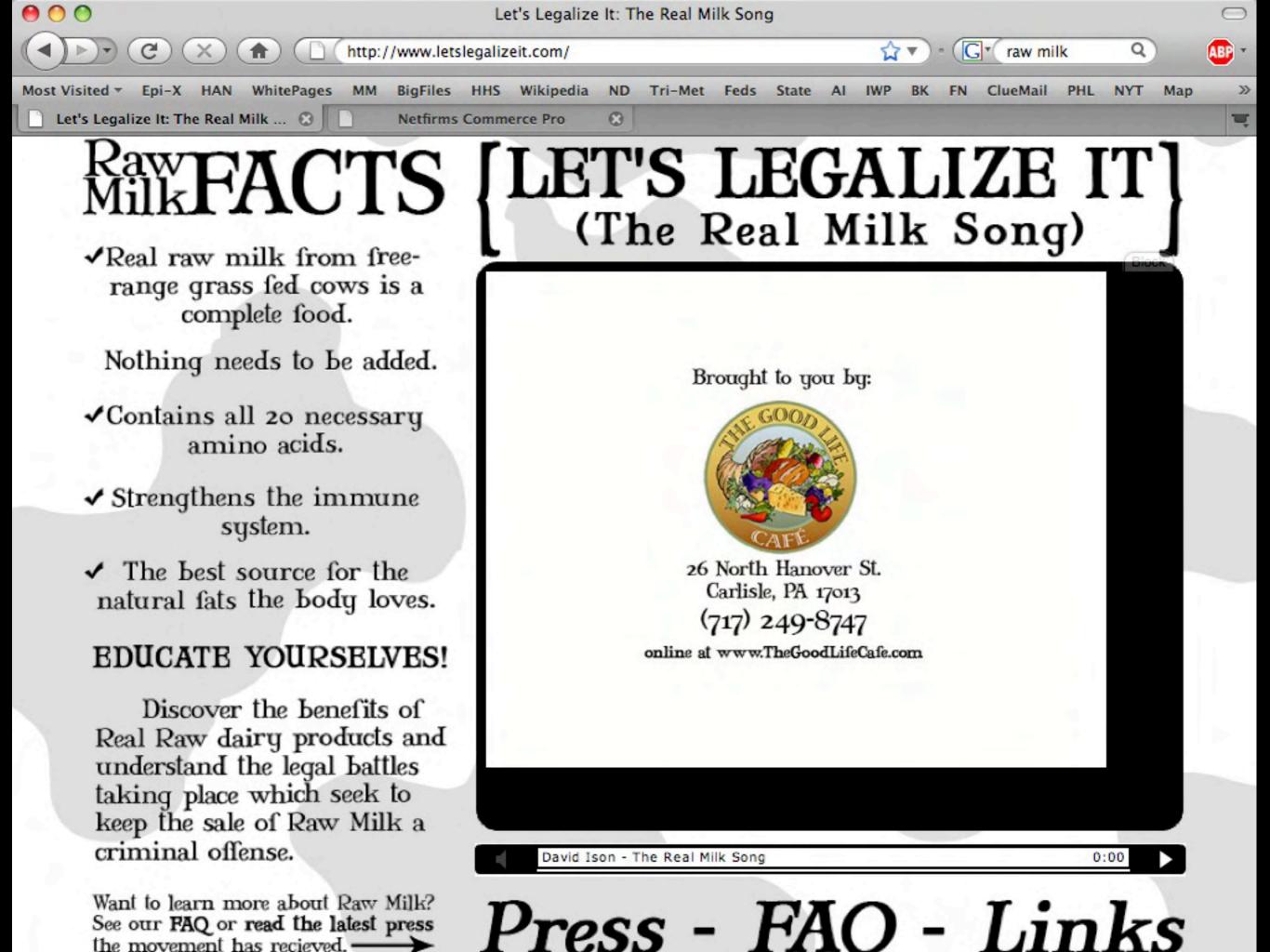
A: No! There is a lot of variation due to the many factors that go into its formation. What the cow is fed, how and where it's raised, how the milk is collected all play important roles in its safety and quality. Cows pastured on organic green grass produce milk with amazing health benefits.

Q: Won't raw milk make me sick?

A: Not if it is properly collected from cows fed organic grass (and a minimum of grain). Heavy grain diets change the composition of the milk and hinder its ability.







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HUMAN CAMPYLO

MORRIS E. POTTER.

A Prolonged Outbreak of Escherichia coli O157:H7 Infections Caused by Commercially Distributed Raw Milk

William E. Keene, Katrina Hedberg, Donald E. Herriott, Dale D. Hancock, Ronald W. McKay, Timothy J. Barrett, and David W. Fleming

Acute and Communicable Disease Section, Oregon Health I Portland, and Animal and Plant Health Inspection Ser Department of Agriculture, and Food Safety Division, Department of Agriculture, Salem, Oregon; Field Disease Inve Unit, Washington State University, Pullman, Washington; Fo

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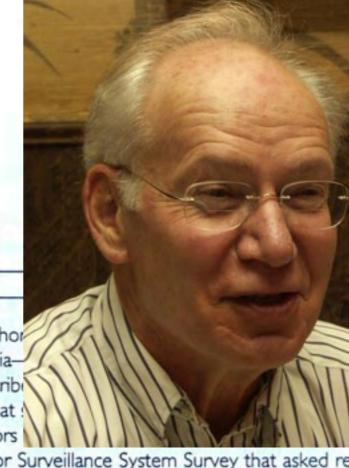
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Ra mal. poter prese Incid 01 of Pu farm antib

Marcia L. Headrick, DVM MPH Babgaleh Timbo, MD DrPH Karl C. Klontz, MD MPH S. Benson Werner, MD

At the time of this study, Dr. Headrick was at the Center for Food Safety and Applied Nutrition, Food and Drug Administration (FDA), Washington, DC; she is currently a Veterinary Epidemiologist with the Center for Devices and Radiological Health, FDA, Rockville, MD. Dr. Timbo and Dr. Klontz are with the Epidemiology Branch, Center for Food Safety and Applied Nutrition, FDA, Washington, DC; Dr. Timbo is an Epidemiologist, and Dr. Klontz is a Medical Officer. Dr. Werner is Chief of the Disease Investigation Section, Division of Communicable Disease Control, California Department of Health Services, Berkeley.

Profile of Raw Milk Consumers in California



SYNOPSIS

Objectives. The author sumption in California-States—and to describe milk consumers in that Methods. The authors

Behavioral Risk Factor Surveillance System Survey that asked respondents about whether they drank raw milk, the amount consumed, the reason for drinking raw milk and where raw milk was most often obtained

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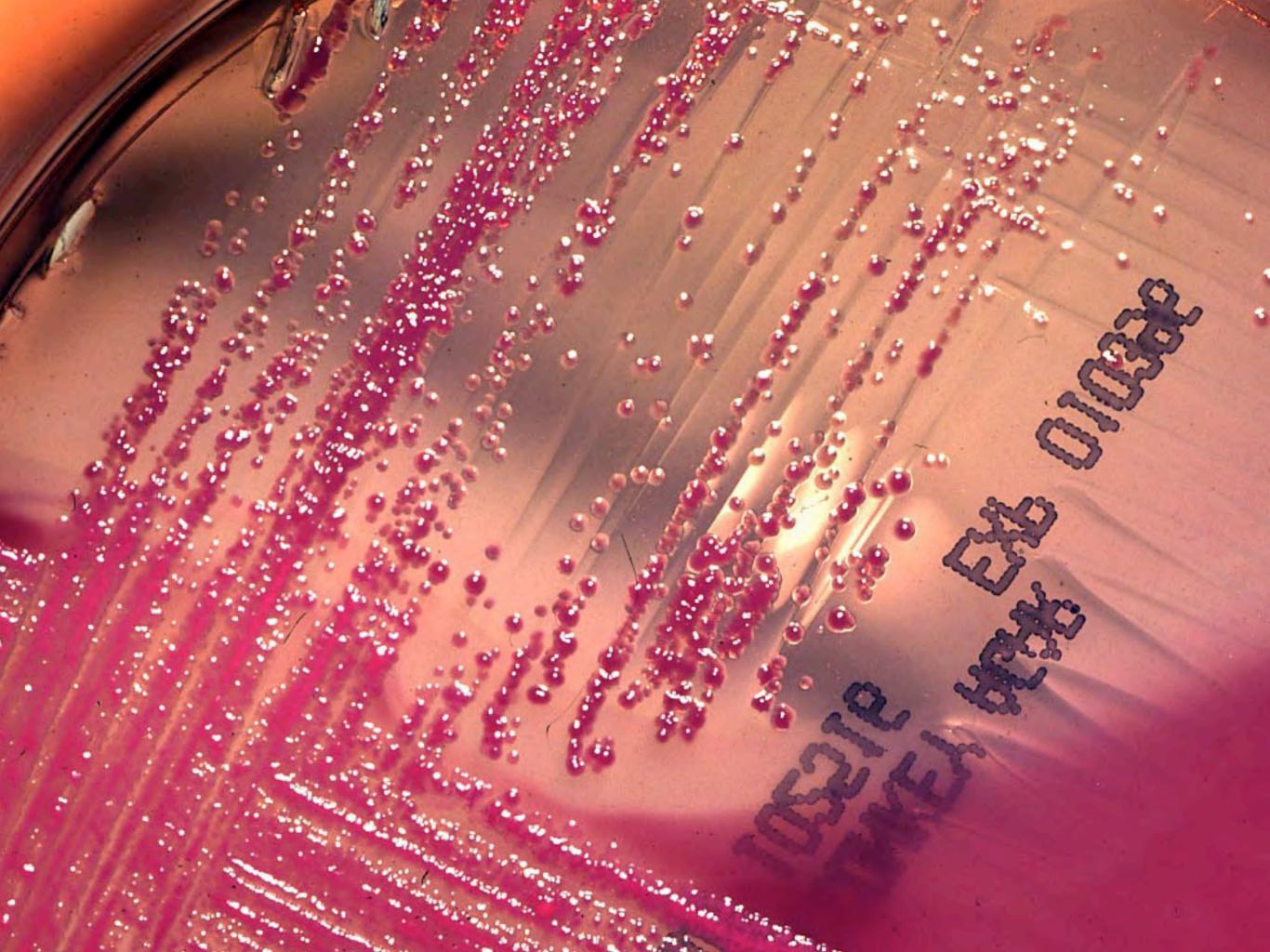
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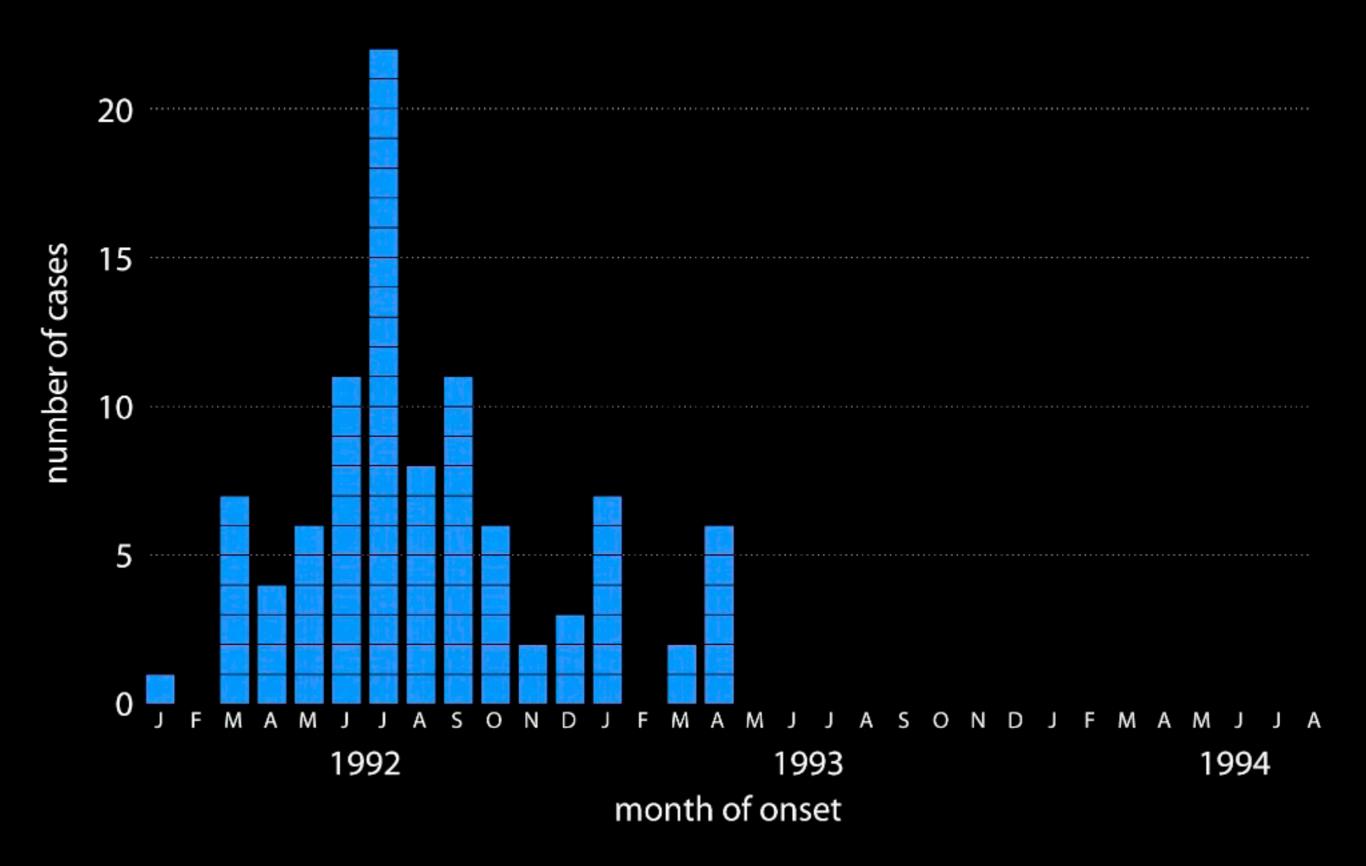
Atlanta,

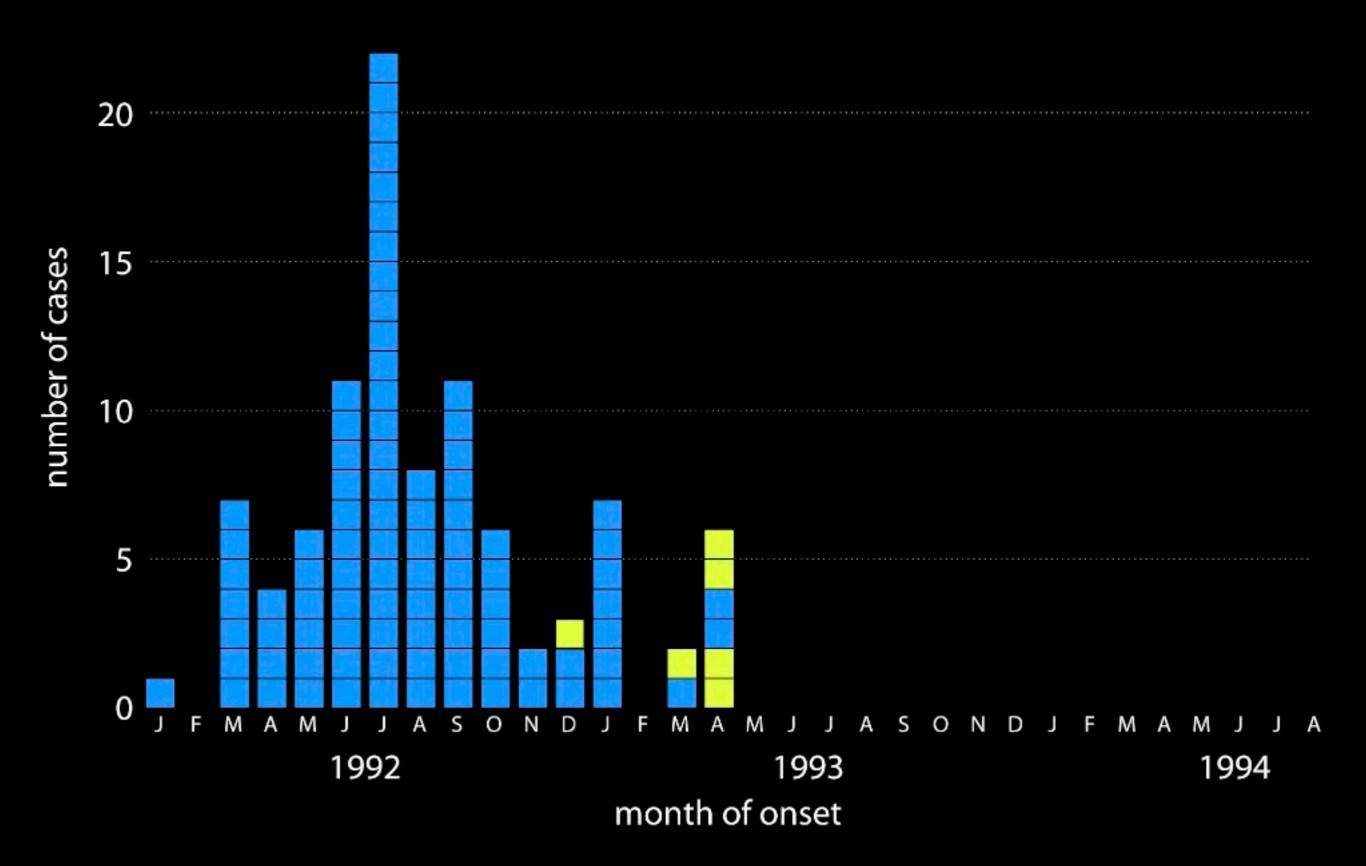
Oregon









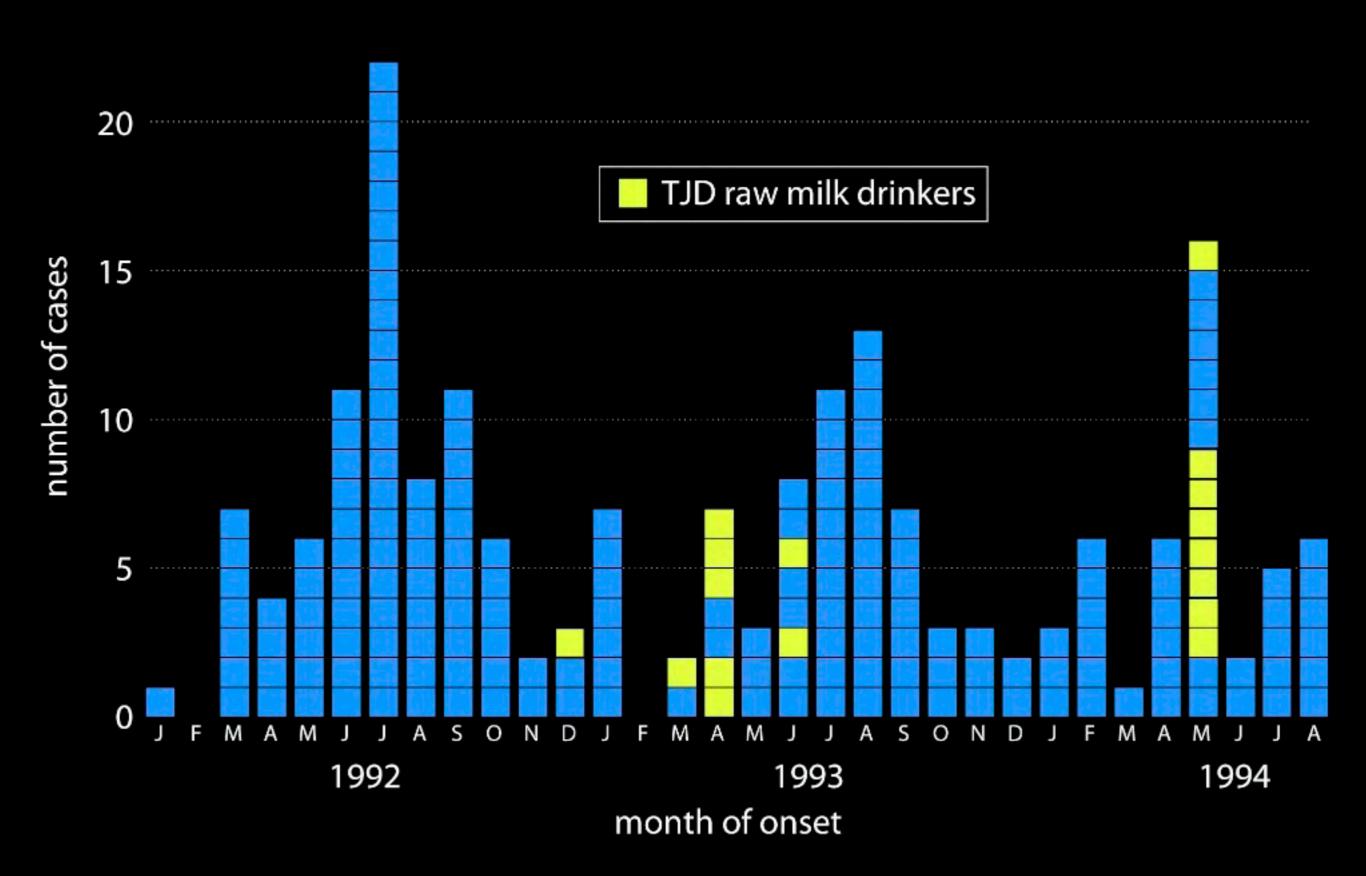






Thomas Jersey Dairy 0157 Outbreak

- Identified in April 1993
- 14 lab-confirmed cases over 18 months
- sales continued despite health department objections
- legal entanglements eventually killed it







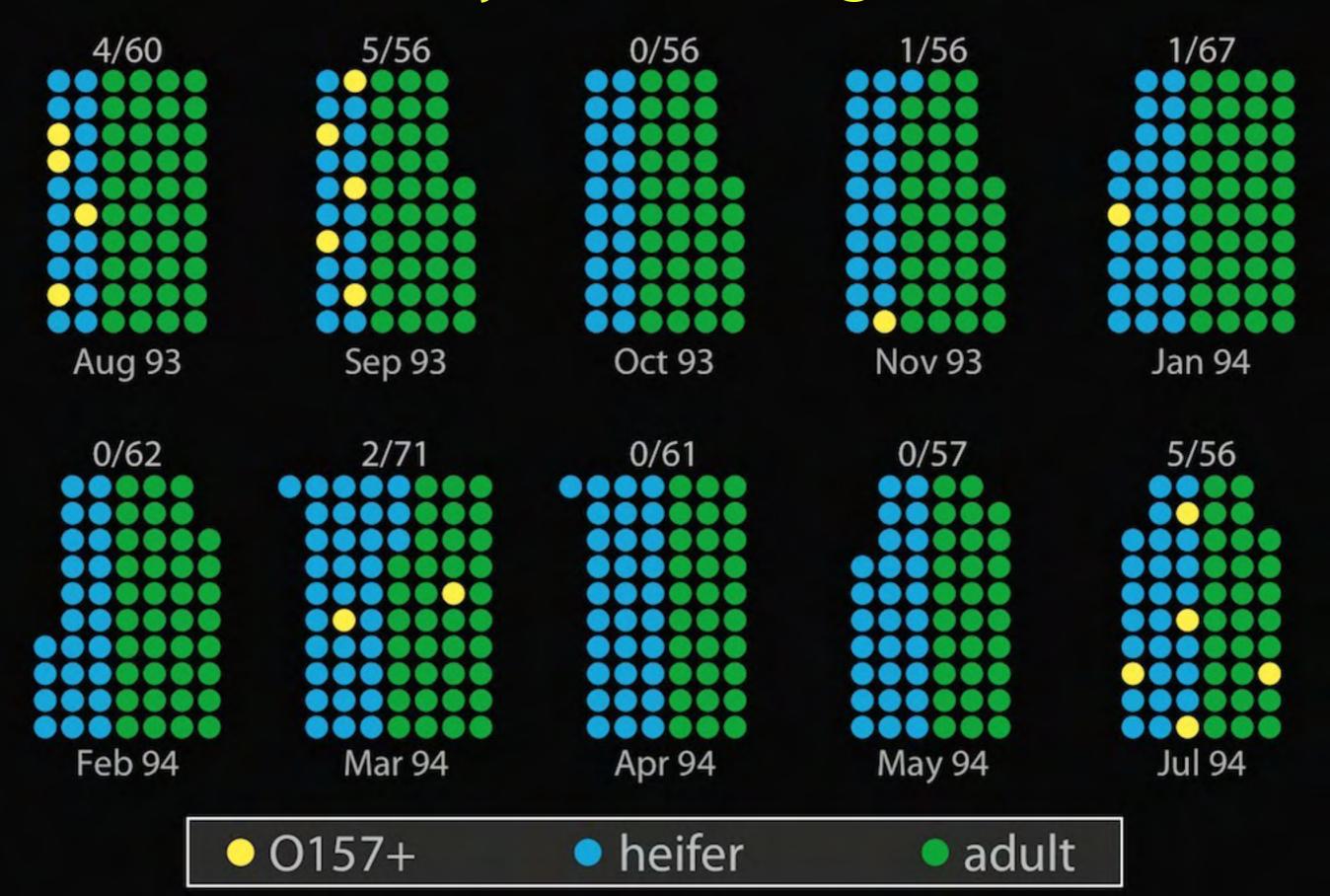








Lakeside Dairy Herd Testing



THOMAS JERSEY DAIRY



GRADE A

THIS PRODUCT HAS NOT BEEN **PASTEURIZED**

16575 S.W. 85th Ave TIGARD, OREGON 97223



STATE REQUIRED WARNING

...MAY CONTAIN DISEASE PRODUCING ORGANISMS.

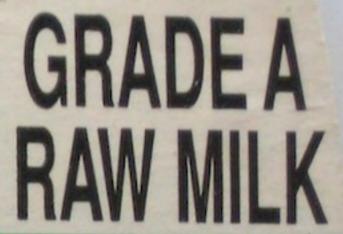
THIS MILK DOES
NOT CONTAIN
ANY ADDED
HORMONES OR
PRESERVATIVES











THIS PRODUCT HAS NOT BEEN PASTEURIZED MAY CONTAIN DISEASE PRODUCING ORGANISMS

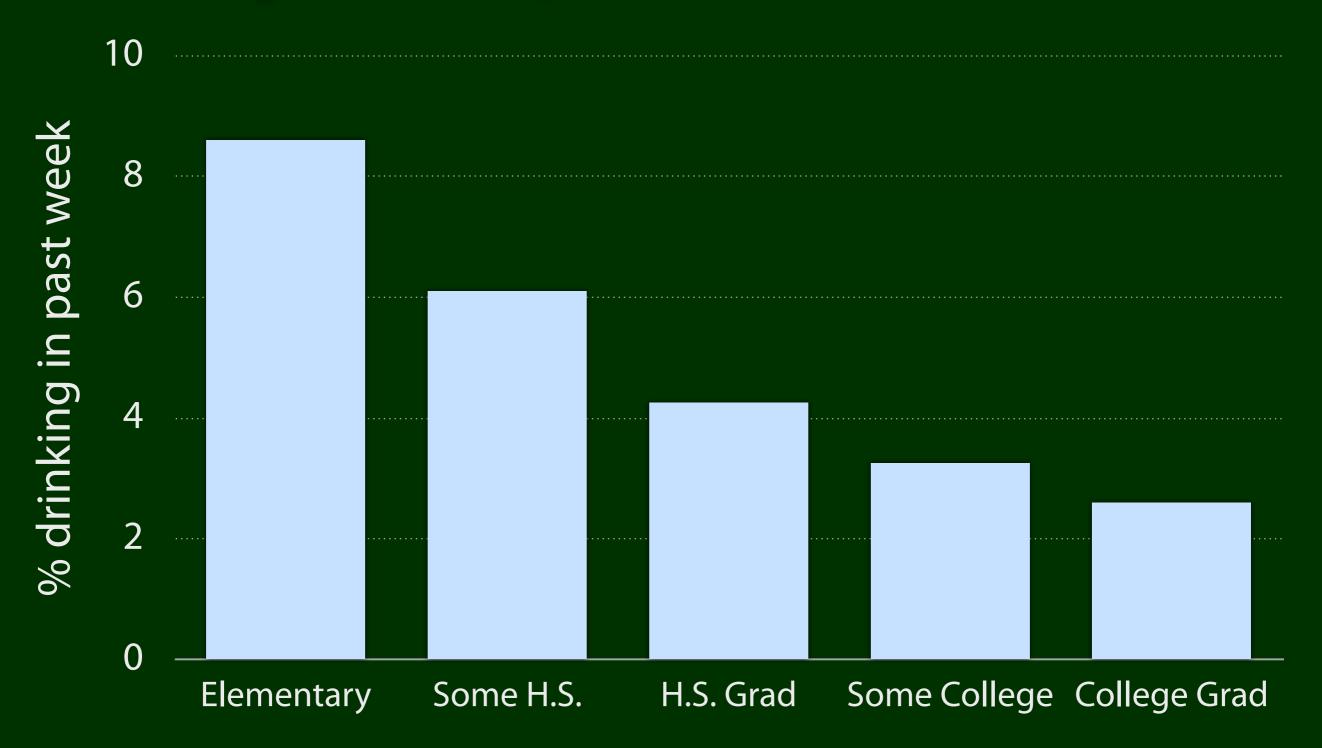


NATURE'S PERFECT FOOD

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Prevalence of Raw Milk Consumption Among Adults by Education



"Did you drink raw milk in the last week?"



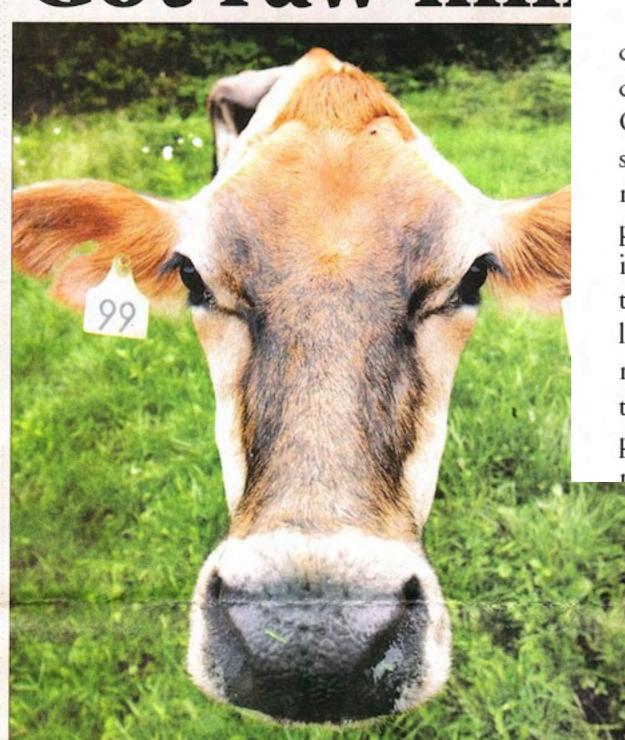






Portland

Got raw mil



milk drinkers that keen business ticking, thanks in part to the efforts of Lilly, one of three milk cows at the farm.

The owners of Dee Creek Farm in Woodland, Wash., thought they would build their customer base with free-range poultry, but it's the raw

As health-conscious Portlanders gravitate toward more organically grown foods, some also are putting get a hold of the raw stuff. stock in raw cow milk.

By AMANDA PENNELLY

for The Tribune

Literally.

wouldn't happen until ... well, the cows came home.

But despite warnings from health officials, and Oregon dairy laws that prohibit the retail sale of unpasteurized milk to humans, many people are doing everything they can to

Because raw milk drinkers can't legally buy it, they're in-Growing numbers of local vesting in the cow that proresidents are buying shares of duces it. Through "cow sharcows' milk production and ing," people can buy a percenthauling raw, or unpasteurized, age of a cow's milk production milk to their neighborhoods - for a one-time fee - anysomething the state said where between \$60 and \$80,

See MILK / Page 2

Escherichia coli O157:H7 Infection Associated with Drinking Raw Milk — Washington and Oregon, November-December 2005

During the week of December 5, 2005, public health officials in Clark County, Washington, were notified of four county residents with laboratory-confirmed Escherichia coli O157:H7 infection. All four residents reported having consumed raw (i.e., unpasteurized) milk obtained from a farm in neighboring Cowlitz County, Washington. The farm participated in a cow-share program, in which persons purchase interests in, or shares of, dairy cows in return for a portion of the milk produced.* The farm had five dairy cows and regularly provided raw milk to shareholders. Although the sale of raw milk and cow-share agreements are illegal in certain states, they are legal in Washington; however, Washington farms that provide raw milk to consumers must be licensed, meet state milk-production and processing standards, and pass health

the legal loopholes

Judy Aydt picks up raw milk from a drop-off point in Portland. Delivery, perhaps the most onerous part of cow sharing, calls for creativity



Unpasteurized Milk

The Hazards of a Health Fetish

Morris E. Potter, DVM; Arnold F. Kaufmann, DVM; Paul A. Blake, MD; Roger A. Feldman, MD

 Meaningful differences in nutritional value between unpasteurized milk have not been demonstrated, at benefits of raw milk consumption have not been substa the role of unpasteurized dairy products in the transm diseases has been established repeatedly. To effective attracted by the health claims made for raw milk, practic understand both the rationale used by proponents o magnitude of the risk involved in drinking raw milk.

(JAMA 1984;252:2050-2054)

AS THE dairy industry began to industrialize in the 1800s, the mass production and distribution of milk and dairy products led to widespread outbreaks of milkborne disease. The greatest perceived milkborne hazards of the time were poor sanitation and handling procedures, as well as diseased dairy cows. Repeated outbreaks of typhoid, scarlet fever, diphtheria, diarrheal disease, and septic sore throat were caused by milk that was produced, transported, and sold under unhygienic conditions.

Nationwide problems with contam-

teurization, clair nutritional defici marketing of s destroyed the na Conversely, the movement denou as unsafe despite tions.12 Ultimate movements beca Pasteurization w primary safegua milk supply afte. soverar epiderme.

were traced to certified raw milk, while the sanitary concepts of the certified milk movement were incor-

is ed. ess in naw (unpasteurizeu) milk may be certified or uncertified. Certified raw milk is produced in accordance with methods and standards established

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Regulating Raw Milk: Pros and Con

Pro

- Dangerous product
- Hazard not always appreciated by public
- Bans reduce illness
- Medical costs reduced
- No known benefits
- Cheap and safe alternative

Con

- **Taste?**
- Freedom
- Consistency

Survey Shows Gap Between Scientists and the Public

BY CORNELIA DEAN

JULY 10, 2009

When it comes to climate change, the teaching of evolution and the state of the nation's research enterprise, there is a large gap between what scientists think and the views of ordinary Americans, a new survey has found.

On the whole, scientists believe American research leads the world. But only 17 percent of the public agrees, and the proportion who name scientific advances as among the United States' most important achievements has fallen to 27 percent from nearly 50 percent in 1999, the survey found.

And while almost all of the scientists surveyed accept that human beings evolved by natural processes and that human activity, chiefly the burning of fossil fuels, is causing global warming, general public is far less sure.

Almost a third of ordinary Americans say human beings have existed in their current form since the beginning of time, a view held by only 2 percent of the scientists. Only about half of the public agrees that people are behind climate change, and 11 percent does not believe there is any warming at all.

According to the survey, about a third of Americans think there is lively scientific debate on both topics; in fact, there is no credible scientific challenge to the theory of evolution and there is little doubt that human activity is altering the chemistry of the atmosphere in ways that threaten global climate.

The survey, by the Pew Research Center for the People & the Press and the American Association for the Advancement of Science, the world's largest scientific organization, involved about 2,000 members of the public and 2,500 scientists drawn from the rolls of the science advancement association, which includes teachers, administrators and others involved in science as well as researchers.

The survey, made public Thursday, is available at people-press.org.

It found that at least two-thirds of Americans hold scientists and engineers in high regard, but the feeling is hardly mutual. The report said 85 percent of science association members surveyed said public ignorance of science was a major problem. And by large margins they deride as only "fair" or "poor" the coverage of science by newspapers and television.

Only 3 percent of the scientists said they "often" spoke to reporters.

In a telephone news conference announcing the survey, Alan I. Leshner, chief executive of the science association, said scientists must find new ways to engage with the public.

"One cannot just exhort 'we all agree you should agree with us," Mr. Leshner said. "It's a much more interactive process that's involved. It's time consuming and can be tedious. But it's very important."











Is Regulation Necessary?

- Absolute vs. relative risk
- Regulation vs. common law liability
- This is not the 1920s
- Not many cases
- Easy pickings for epidemiologists
- Should we care more about these people's kids than they do?



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METRO

NEWS FROM THE PORTLAND AREA AND THE NORTHWEST



NNA GRIFFIN MMENTARY

gonian

DAY, JULY 11, 2009

i't gonna n Kruger's no more

Kruger always figed it was a matter of ne before somebody mplained. Sauvie Island farmer, ng happy couples the on his 160-acre spread ago. He's since added ties, corporate picnics, certs and bike races. he events would draw

'I did everything I could'



ROSS WILLIAM HAMILTON/THE OREGONIAN

Raylene Worthington testifies that Ava was an "average" baby, with an independent streak and playful attitude, who always ate well.

Faith healing | Carl Brent Worthington testifies he was shocked when his daughter, Ava, stopped breathing

> By STEVE MAYES THE OREGONIAN

Carl Brent Worthington said his daughter caught a bad cold, but he never believed the illness imperiled the child's life or would abruptly end it.

Worthington said that he saw no reason to take the 15-month-old child to a doctor, even though her breathing concerned him and phlegm had to be suctioned from her mouth so she could breathe.

Worthington, who goes by his middle name, and his wife, Raylene, testified Friday in their Clackamas County

Circuit Court trial. They are charged with second-degree manslaughter and criminal mistreatment for not providing adequate medical care, resulting in Ava's death March 2, 2008.

The couple belong to the Followers of Christ, an Oregon City congregation that favors faith healing over medical

In hindsight, Worthington said he would not have done anything differently.

"I did everything I could," he said, adding that the faith-healing treatments were working and there was no need for a physician. The Worthingtons said they were shocked when Ava suddenly stopped breathing.

The couple described their daughter as a petite but chubby child with a playful attitude and an independent streak.

Please see TRIAL, Page B2



ROSS WILLIAM HAMILTON/THE OREGONIAN

Carl Brent Worthington says his daughter was never bothered by a cyst on her neck that doctors said blocked her airway and esophagus.





TRUCKERS DO NOT Y

PICK UP MILK AT FARMS WHERE THERE ARE CASES OF DIPHTHERIA

SCARLET FEVER
INFANTILE PARALYSIS
SPINAL MENINGITIS
SMALLPOX TYPHOID

Report all cases on your route to

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CLEVELAND, O., NA 4600

