



Writing the Water Safety Management Plan Executive Summary



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Writing the Executive Summary ...

WATER SAFETY (RISK) MANAGEMENT STEPS



ROLES & RESPONSIBILITIES



WRITING THE SUMMARY



DESCRIBE THE BUILDING



IDENTIFY RISK



MITIGATE RISK



CORRECTIVE ACTIONS

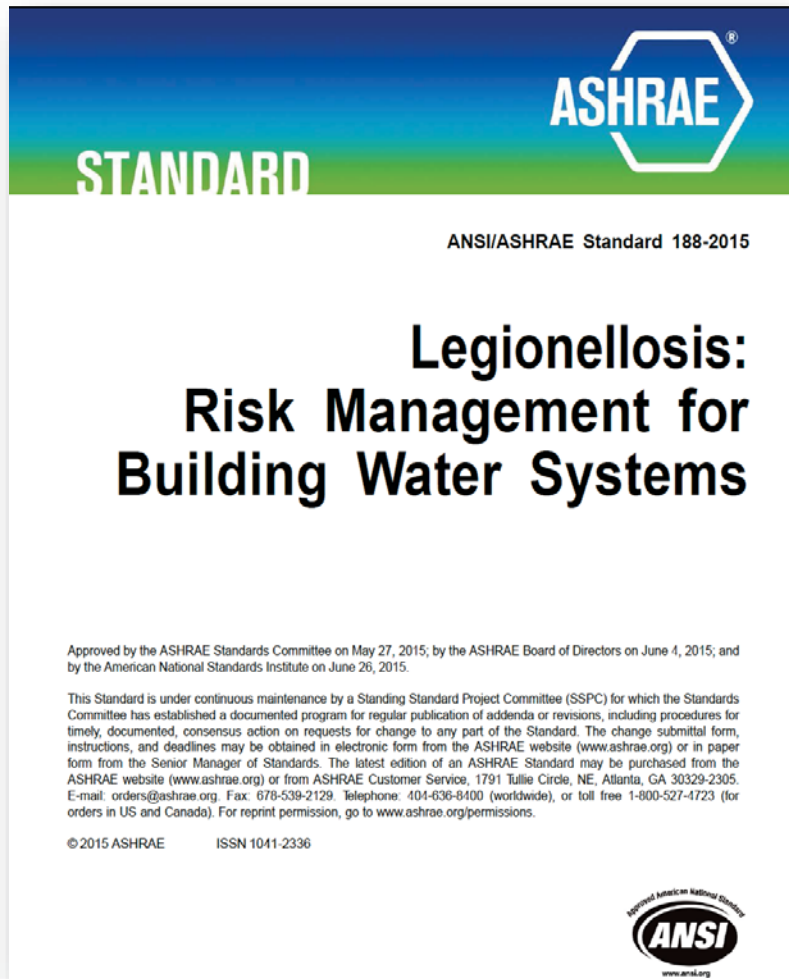


DOCUMENTATION



RESOURCES & TOOLS

The **NEW FOCUS** on *Legionella* and Disease Prevention . . .



A LOT has happened in the last 3 years+ since ASHRAE 188!

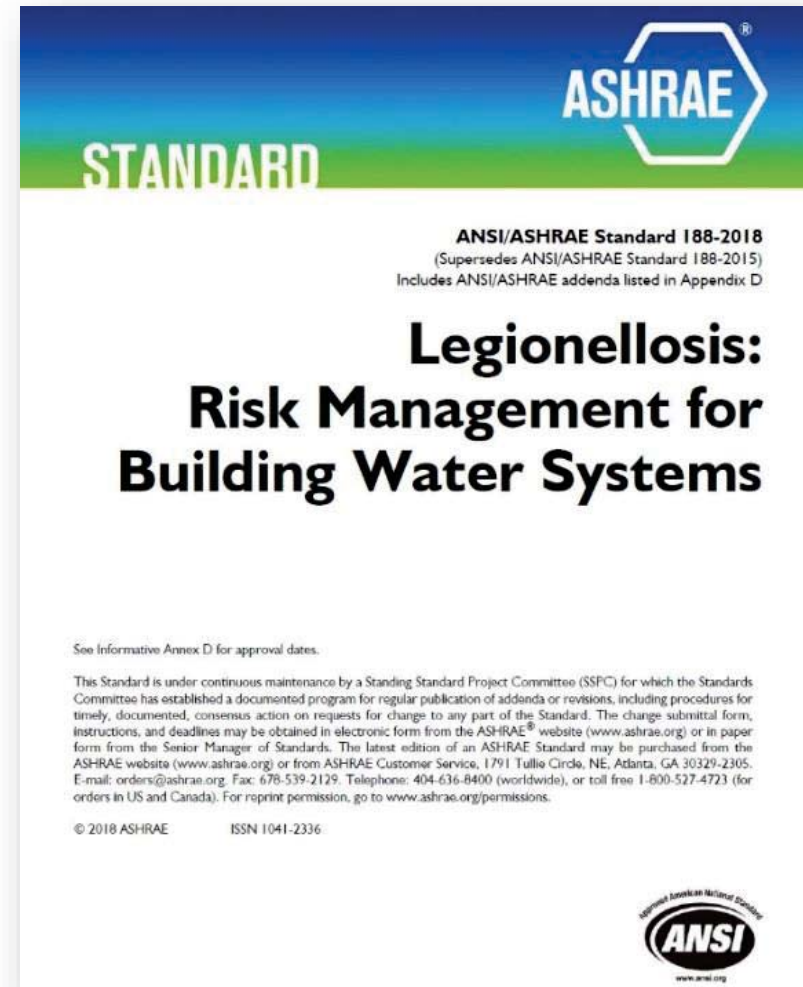


NEWLY Updated Release → **ASHRAE Standard 188-2018 (August 2018)**

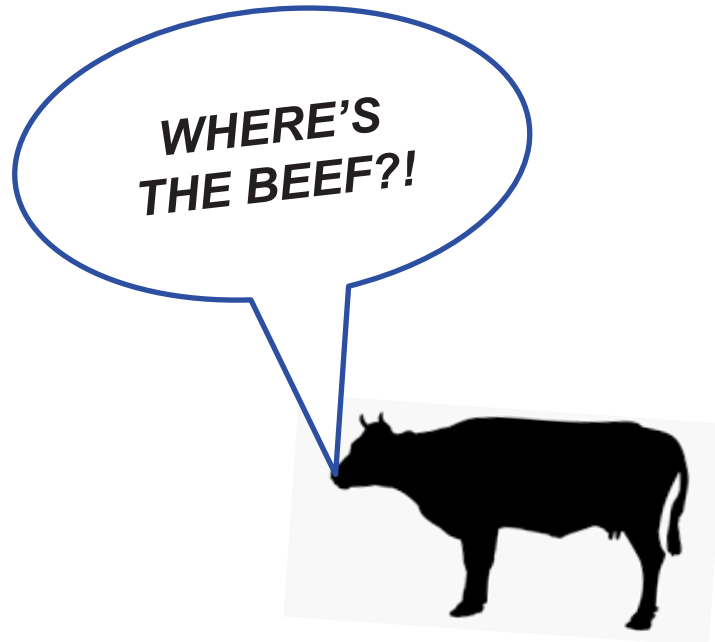


New update to Standard includes:

- Comprehensive update to enforceable, code-intended language
- Addendums a–h from the public and reviews since first release in 2015



What about ASHRAE Guideline 12-2000...





A repeated
Standard 188
Public Review
Question / Comment



Under revision: 2019 Release / 2Q?

Guideline 12-2000R

ASHRAE[®]



**Minimizing the Risk of
Legionellosis Associated
with Building Water
Systems**

Approved by the ASHRAE Standards Committee February 5, 2000;
by the ASHRAE Board of Directors February 10, 2000.

CMS: Directive—Revised! (Changed?)



DEPARTMENT OF HEALTH & HUMAN SERVICES
Centers for Medicare & Medicaid Services
7500 Security Boulevard, Mail Stop C2-21-16
Baltimore, Maryland 21244-1850



Center for Clinical Standards and Quality/Quality, Safety and Oversight Group

Ref: *QSO-17-30*- Hospitals/CAHs/NHs

REVISED 07.06.2018

DATE: June 02, 2017

TO: State Survey Agency Directors

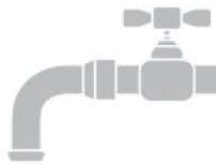
FROM: Director
Quality, Safety and Oversight Group (*formerly Survey & Certification Group*)

SUBJECT: Requirement to Reduce *Legionella* Risk in Healthcare Facility Water Systems to Prevent Cases and Outbreaks of Legionnaires' Disease (LD)

****Revised to Clarify Expectations for Providers, Accrediting Organizations, and Surveyors****

Note: CMS does not require water cultures for Legionella or other opportunistic water-borne pathogens. Testing protocols are at the discretion of the provider.

NASEM forms a *Legionella* committee



The National Academies of Sciences • Engineering • Medicine **Management of *Legionella* in Water Systems**

Meeting (1): Feb 7–8, 2018 / **Meeting (2):** May 7, 2018 /

Meeting (3): July 30, 2018

Meeting (4): Oct 22, 2018



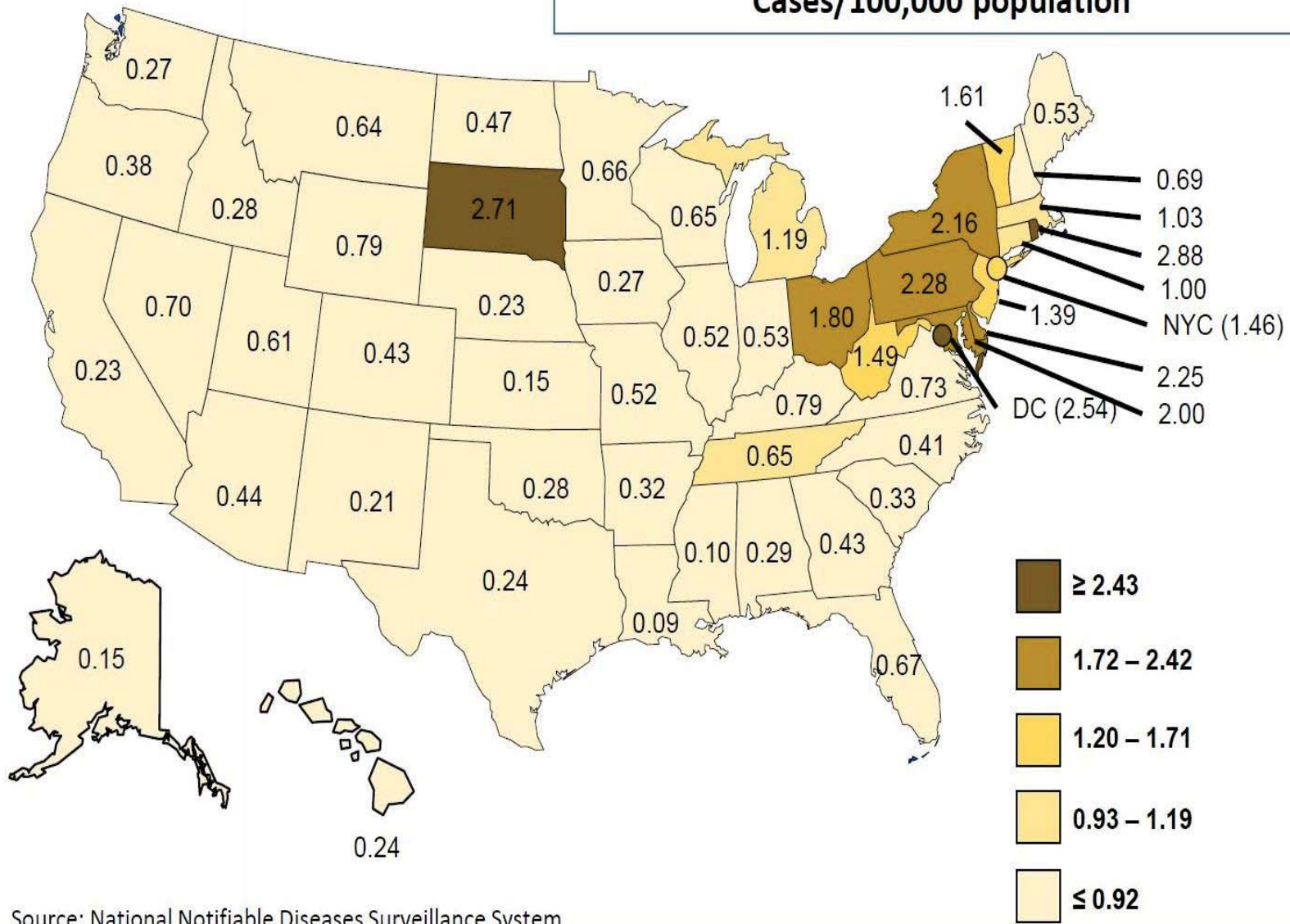
The National Academies of Sciences • Engineering • Medicine **Management of *Legionella* in Water Systems**

Centers for Disease Control and Prevention

February 8, 2018

Increases are apparent across the country, even with geographic differences in incidence – 2005

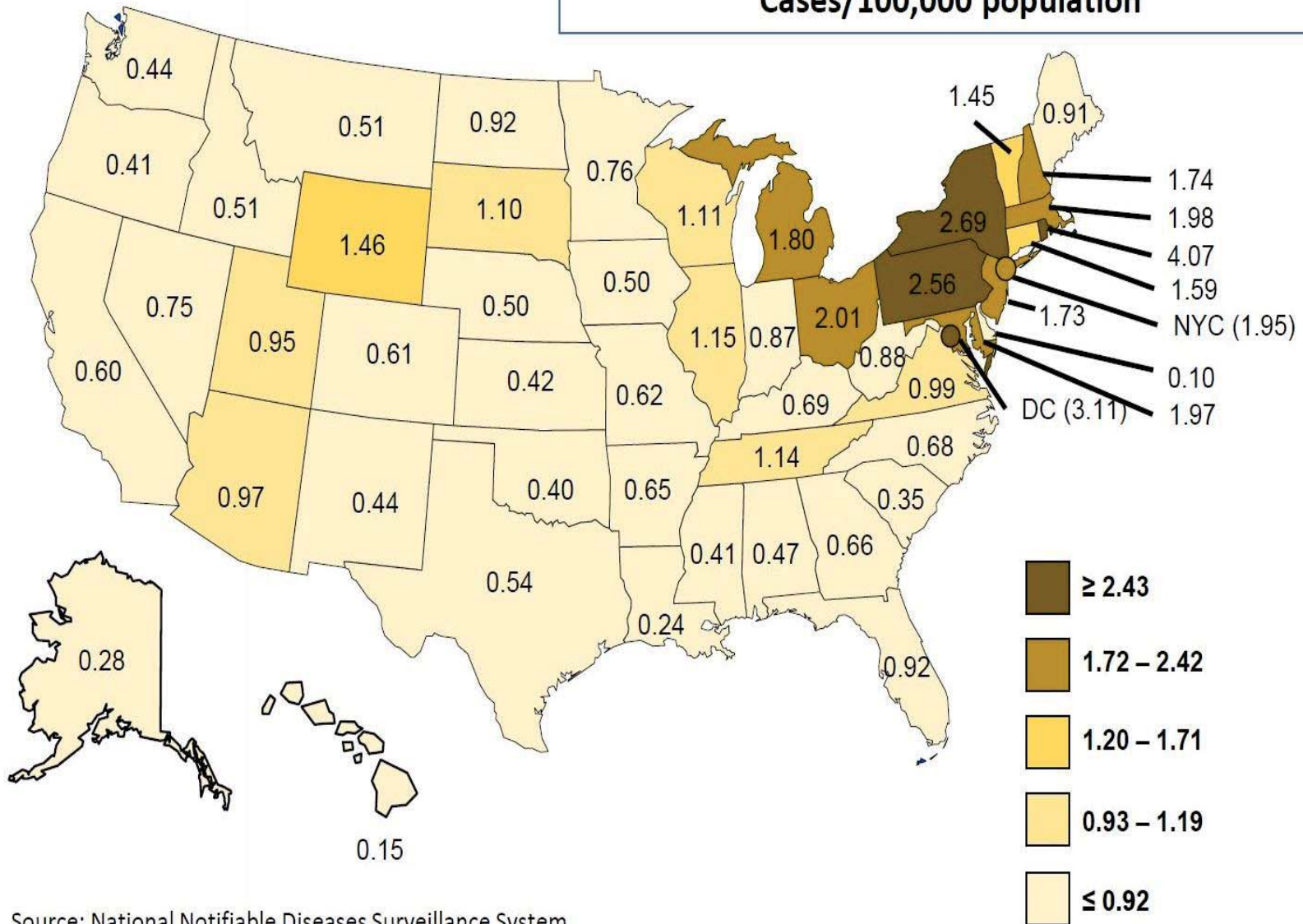
Rates of reported legionellosis cases by state, 2005
Cases/100,000 population



Source: National Notifiable Diseases Surveillance System

Increases are apparent across the country, even with geographic differences in incidence – 2010

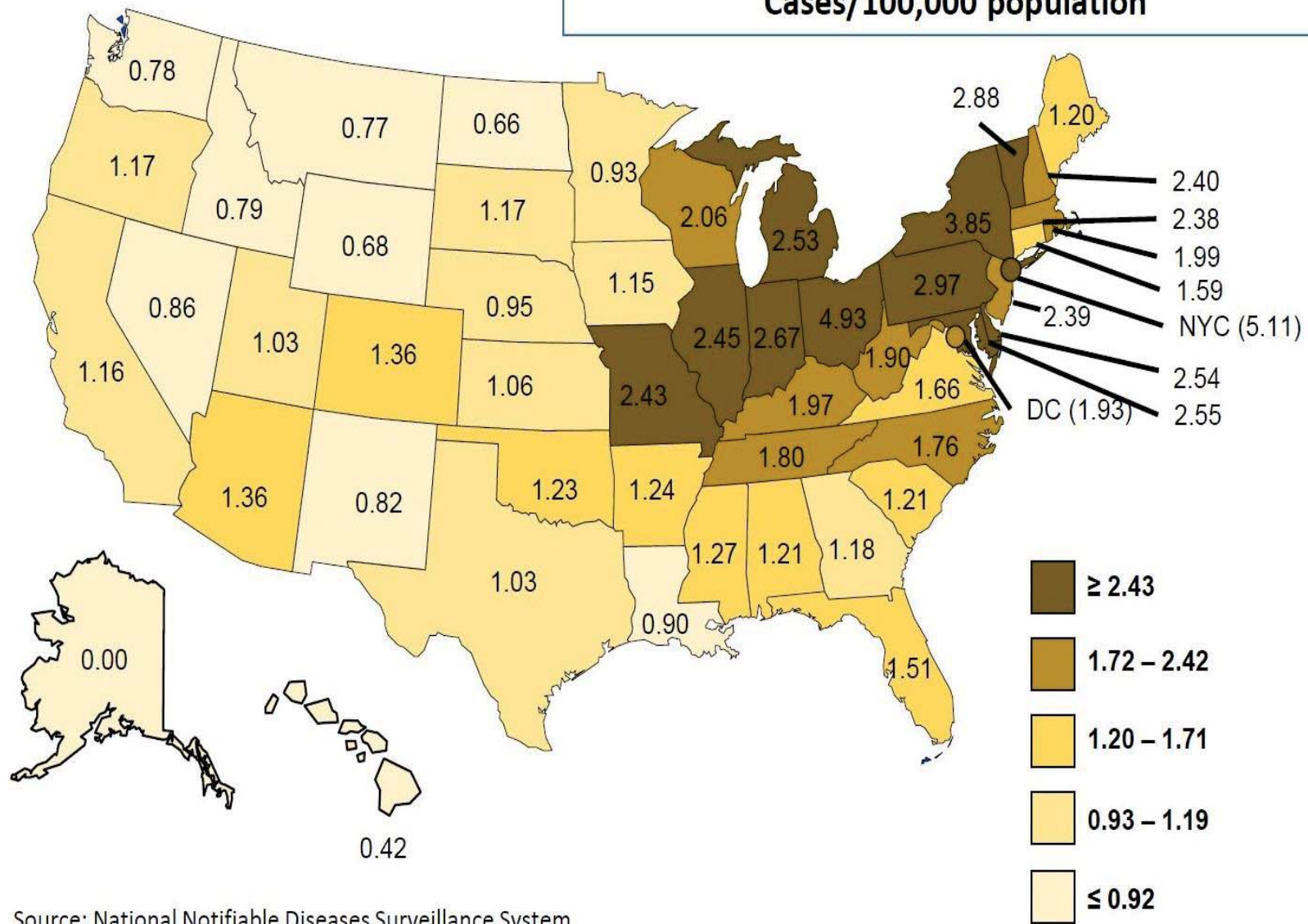
Rates of reported legionellosis cases by state, 2010
Cases/100,000 population



Source: National Notifiable Diseases Surveillance System

Increases are apparent across the country, even with geographic differences in incidence – 2015

Rates of reported legionellosis cases by state, 2015
Cases/100,000 population



Source: National Notifiable Diseases Surveillance System

NSF International holds First Ever *Legionella* Conference



Conflicts
of
Interest?

LEGIONELLA CONFERENCE 2018

**MANAGING LEGIONELLA
AND OTHER PATHOGENS IN
BUILDING WATER SYSTEMS**

May 9 – 11, 2018
Hilton Baltimore

NSF NSF

NSF International Standard / NSF 444 – 20xx: ??
“Prevention of Disease & Injury Associated with Building Water Systems”

Legionella has Everyone's Attention



- ASHRAE, AWT, CTI, IWC, NSFi, NSF, NASEM, ASTM, AWWA, WQA
 - CDC, EPA, VHA, State and Local, DOHs, DHMHs
 - ASHE, AIHA, CMS, TJC, NIH
 - Related industry organizations APIC, ASPE, IAPMO, WRF...
- ... and many, many more!**



COUNTY OF LOS ANGELES
Public Health

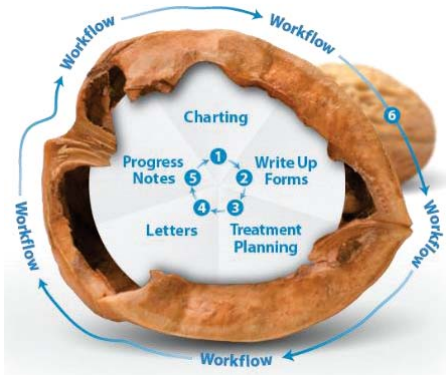
What are *Legionella* Water Safety Management (WSM)* Plans?



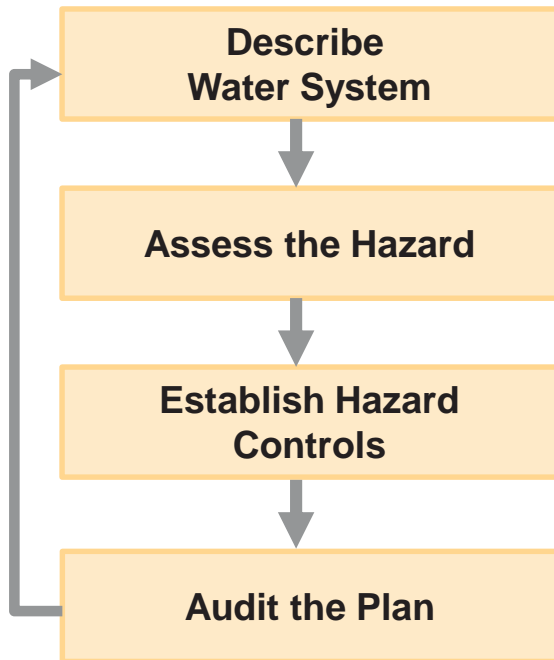
- * WSP = water safety plan (WHO)
- * WMP = water management plan (ASHRAE)
- * WSMP = water safety management plan (WRF)

- A written plan identifying hazardous conditions and steps taken to control the growth and spread of *Legionella* (and other pathogens) in building water systems to prevent disease
- Having a water (safety) management program is now an industry standard for large buildings and healthcare facilities in the United States

ASHRAE Standard 188 in a Nutshell



To comply with Standard 188, facility owners & managers **must...**



- 1 → Establish a **team**** with assigned responsibilities and accountabilities
- 2 → Have, practice, audit, and maintain a **water (safety) management program**** for the control of *Legionella* bacteria associated with building water systems

What is an 'Executive Summary'? ...



Wikipedia: *An **executive summary**, or management summary, is a short document or section of a document, produced for business purposes, that summarizes a longer report or proposal or a group of related reports in such a way that readers can rapidly become acquainted with a large body of material without having to read it all.*

What is a WSM plan Executive Summary?



WSM plan Executive Summary is the same:

- Simply an overview summary of the WSM plan
- A short *Forward* or 'ES-titled' section of the WSM plan
- Summarizes the longer (full) WSM plan document
- Provides readers a quick acquaintance with the longer (WSM) document without having to read it all ...



Writing the Executive Summary



When writing a WSM plan Executive Summary:

- **Write it last** – while its the beginning of a finished WSM plan, write the executive summary after writing everything else
- Emphasize the **importance** of a WSM plan – i.e., to manage *Legionella* in building water systems to prevent disease
- **Keep it short** – less is more – summarize the essentials
- **Keep it simple** – most are short texts, often with bullets and subheadings – an illustration, graph or picture may be useful
- Organize in order of WSM plan importance to show emphasis
- Can be **repurposed** as a summary memo – PR / media

Executive Summary and the Water Safety Management (WSM) Plan



Summary:

- Make your WSM Plan relevant and simple
- There are few standards; guidelines are the norm
- Guidelines and standards are steered by **Validation**
- Risk Management is a repetitive process of continuing improvement
- So long as the process of assessment, mitigation and validation is followed – the presence of *Legionella* is simply an opportunity for improvement
- Risk Management can be your friend – and does prevent disease!