

Culture and Data: The Keys to Highly Effective **Public Health Program**

Steven Mandernach, Executive Director, Association of Food and Drug Officials FDA Retail Seminar – Grand Rapids, MI – 10/6/2023

Making Public Health Decisions – with Courage, Persistence, and Using Data

2. 3.

What are some examples of public health and food safety leadership.

What is a public health or food safety regulatory culture and how might we measure and apply appropriate metrics at inspector level and program level?

How can we use data to help us evaluate and set metrics and performance measures at the program and individual levels that support and achieve a public health and food safety culture.

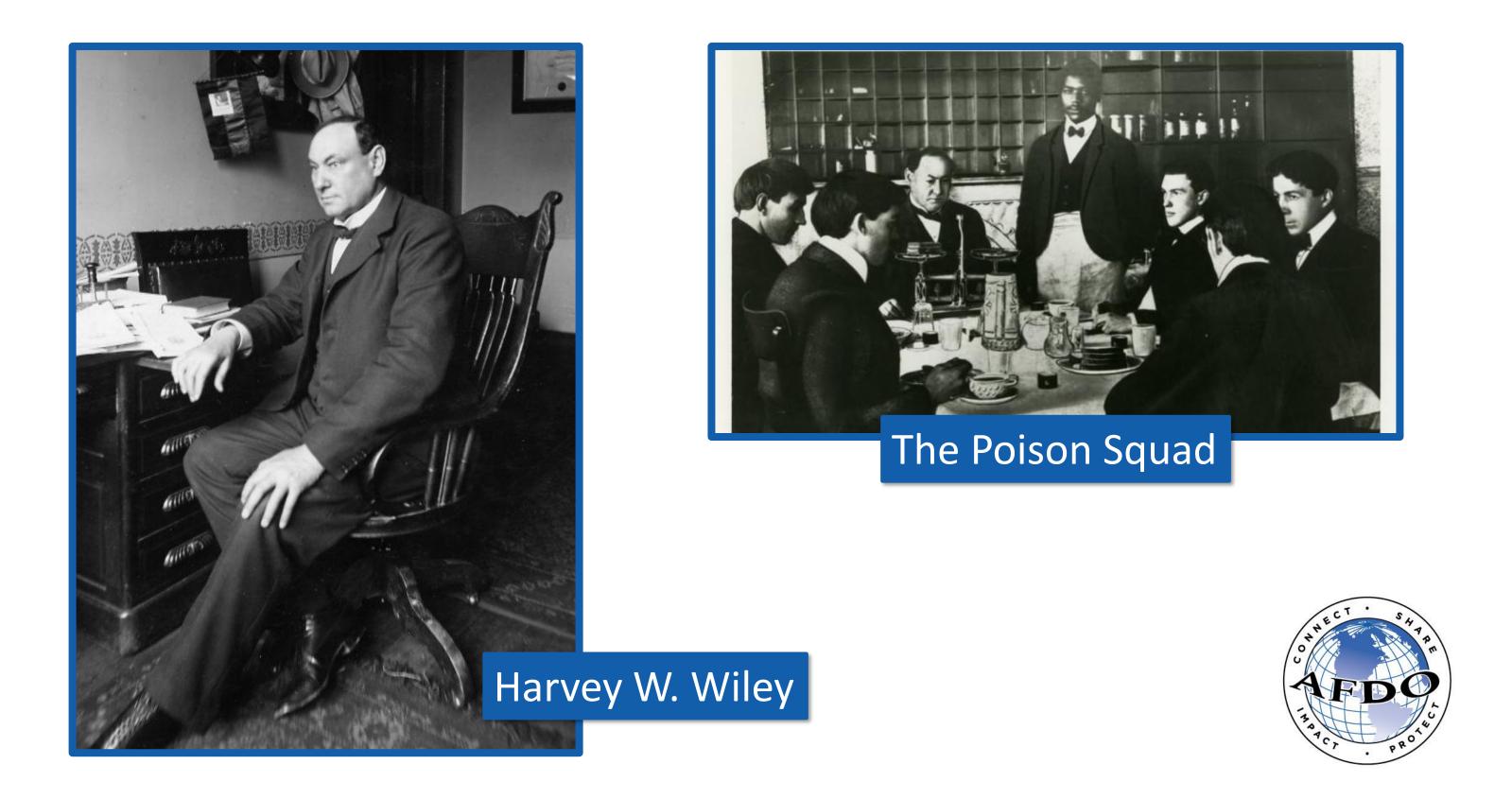




Public Health Heroes



Impacting Public Health Through Change





Impacting Public Health Through Change

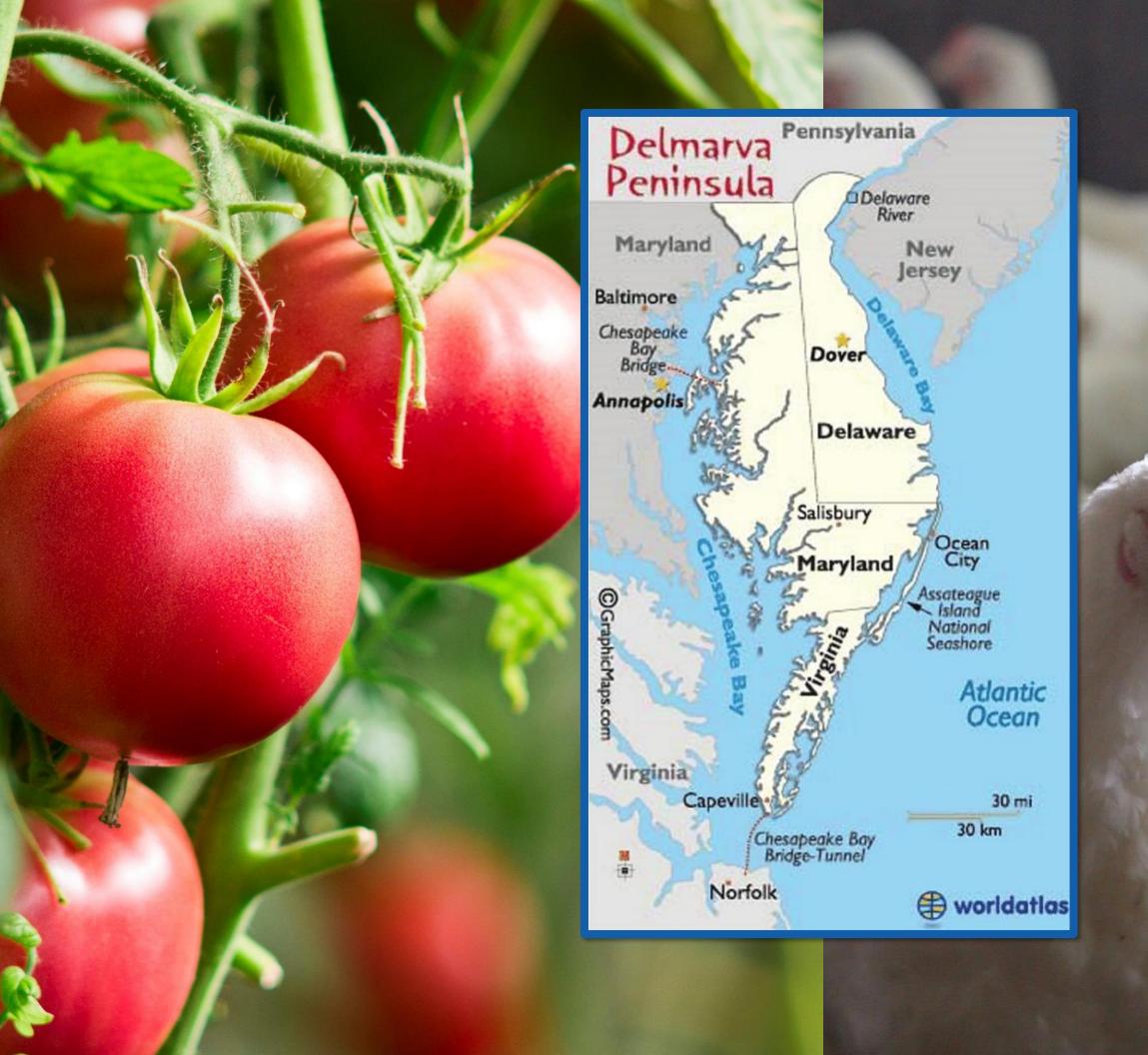


Ernest Julian, Ph.D.

Assistant Director of Health at Rhode Island Department of Health (Retired)









"Verify systematic correction **OR** perform a new inspection?"

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Healthy People 2030

Sets public health goals for a 10-year period

Food Safety Leaders

120

Impacting Public Health Through Change



Ernest Julian, Ph.D. Assistant Director of Health at Rhode Island Department of Health (Retired)

- Retained a very talented leader.
- Helped her learn her new position.
- Focused on public health every day.





Impacting Public Health Through Change



Frank Yiannas

Former Deputy Commissioner for Food Policy and Response





Having a strong food safety culture is a choice. **Organizational cultures are created by leaders, and** one of the most decisive functions of leadership may well be the creation, the management, and – if when necessary – the destruction of culture. A food safety culture starts at the top and flows downward. It is not created from the bottom up."

- Frank Yiannas

Food Safety Culture



Behavior change is probably the single most important part of food safety.



Impacting Public Health Through Change



Frank Yiannas

Former Deputy Commissioner for Food Policy and Response

- **Clearly** articulated goals.
- Leading proactively with a long-term purpose.
- Persevere and change an organization regardless of how tough it is.





Retail Food Safety Regulatory Association Collaborative Cooperative Agreement



Retail Inspection Report Data Analytics is one of the key projects for meeting the **Collaborative's CAP objectives.**



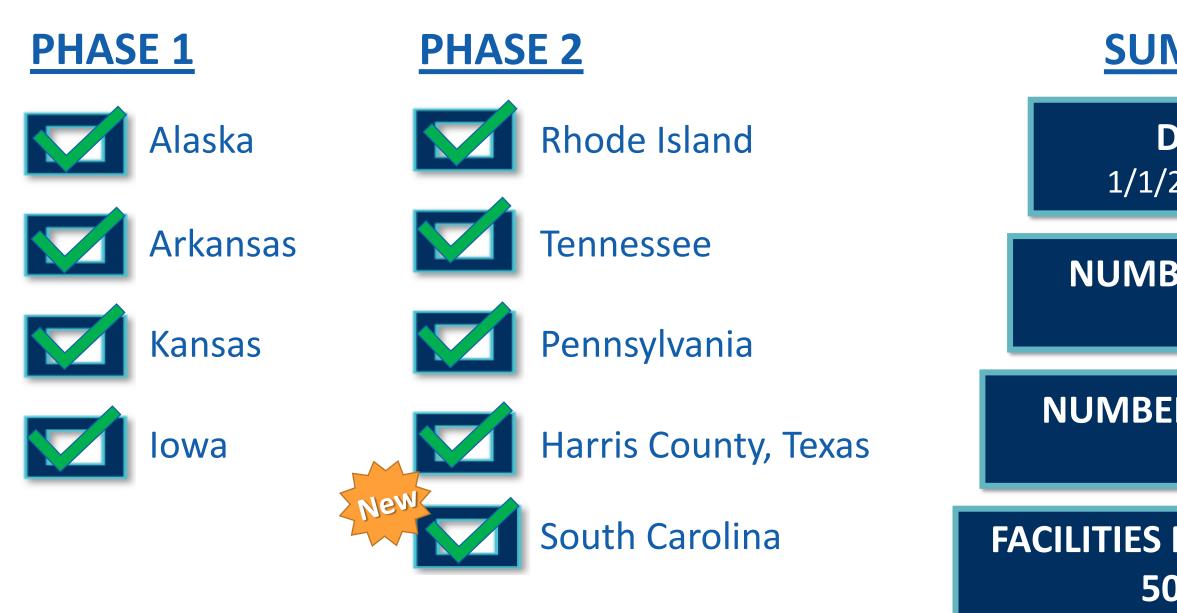


Data Analytics: Insights from inspection data sets

- How do we know we are on target?
- Everyone is collecting data, but it is not the same data
 - Different Food Codes
 - Different forms
 - Different risk categories



Participating States



SUMMARY DATA

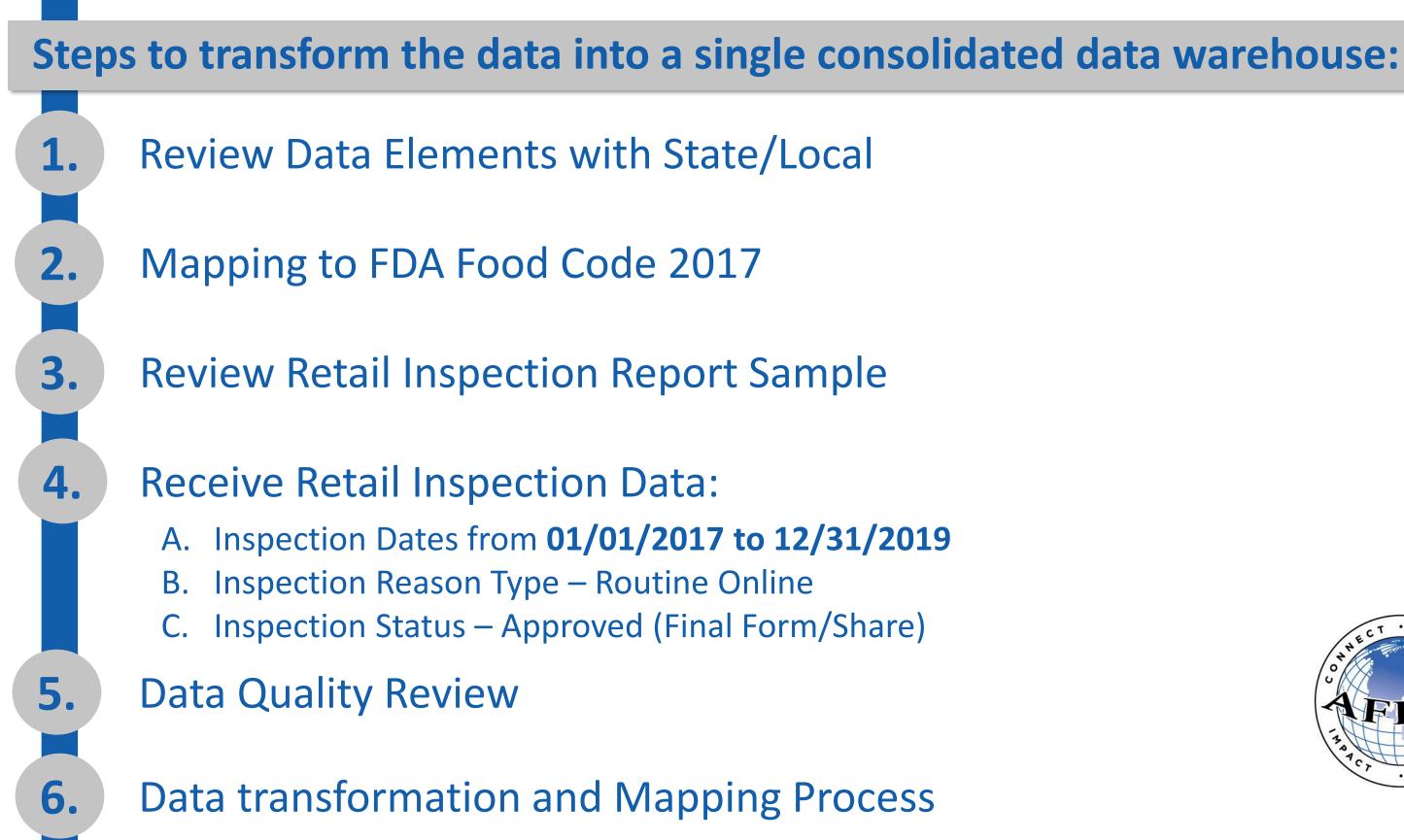
DATE RANGE: 1/1/2017 - 12/31/2019

NUMBER OF FACILITIES: 172,000

NUMBER OF INSPECTIONS: 436,000

FACILITIES MATCHED TO THE TOP 500 RETAILERS: 20.7%

Data Quality and Transformation Process







Number of Retail Facilities and Inspections Analyzed by Risk Category*

Risk Category	Number of Facilities (%)	Number o
High	5,175 (17%)	
Medium	16,797 (55%)	
Low	8,427 (28%)	
TOTAL	30,399	

* This represents the top retailer brands for which we have risk categorization, which is ~20% of the full inspection data set.

of Inspections (%)

15,449 (19%)

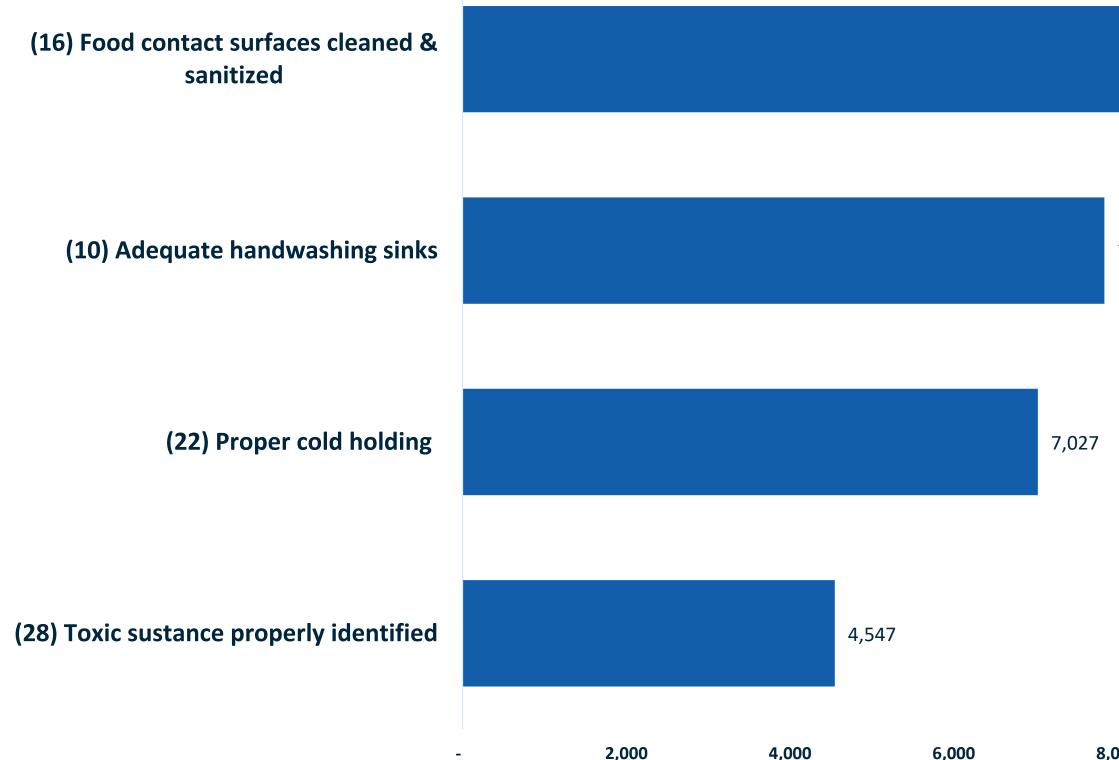
45,693 (56%)

19,784 (24%)

80,926



Top Risk Factors OUT OF COMPLIANCE during High or Medium Risk Inspections



10,638

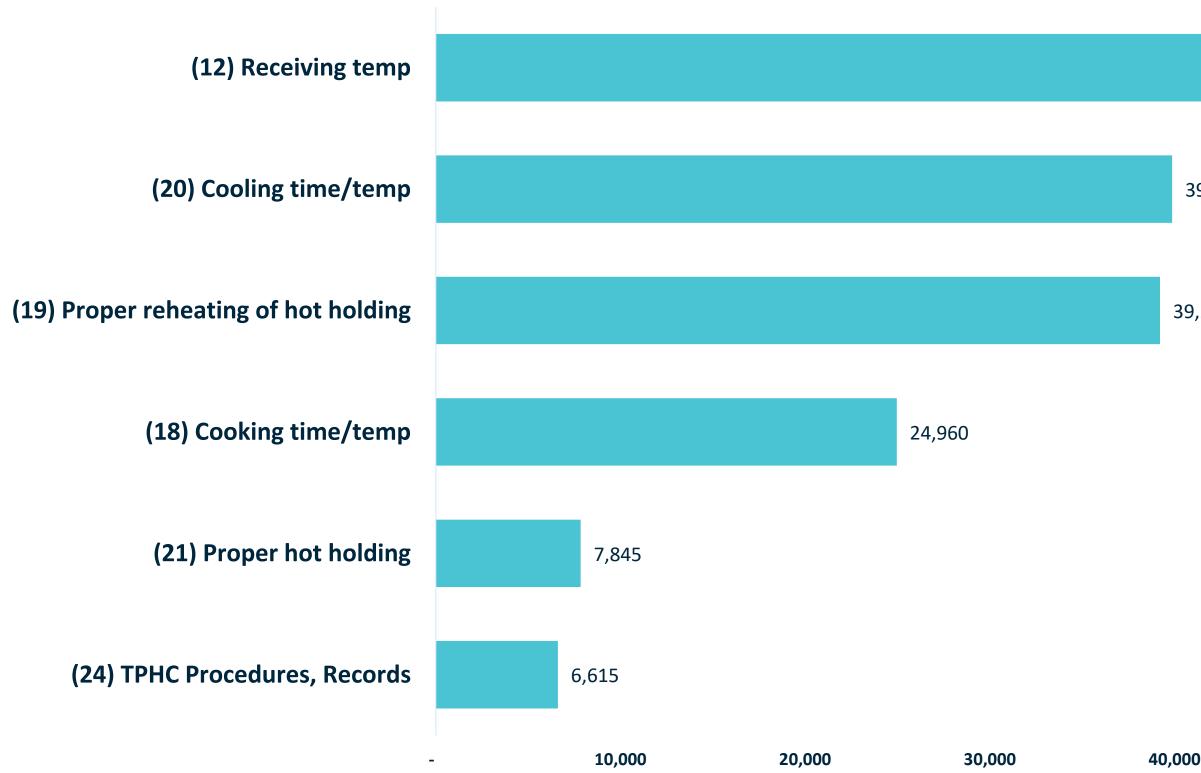
7,840

8,000

10,000

12,000

Top Risk Factors NOT OBSERVED during High or Medium Risk Inspections



51,138

39,870

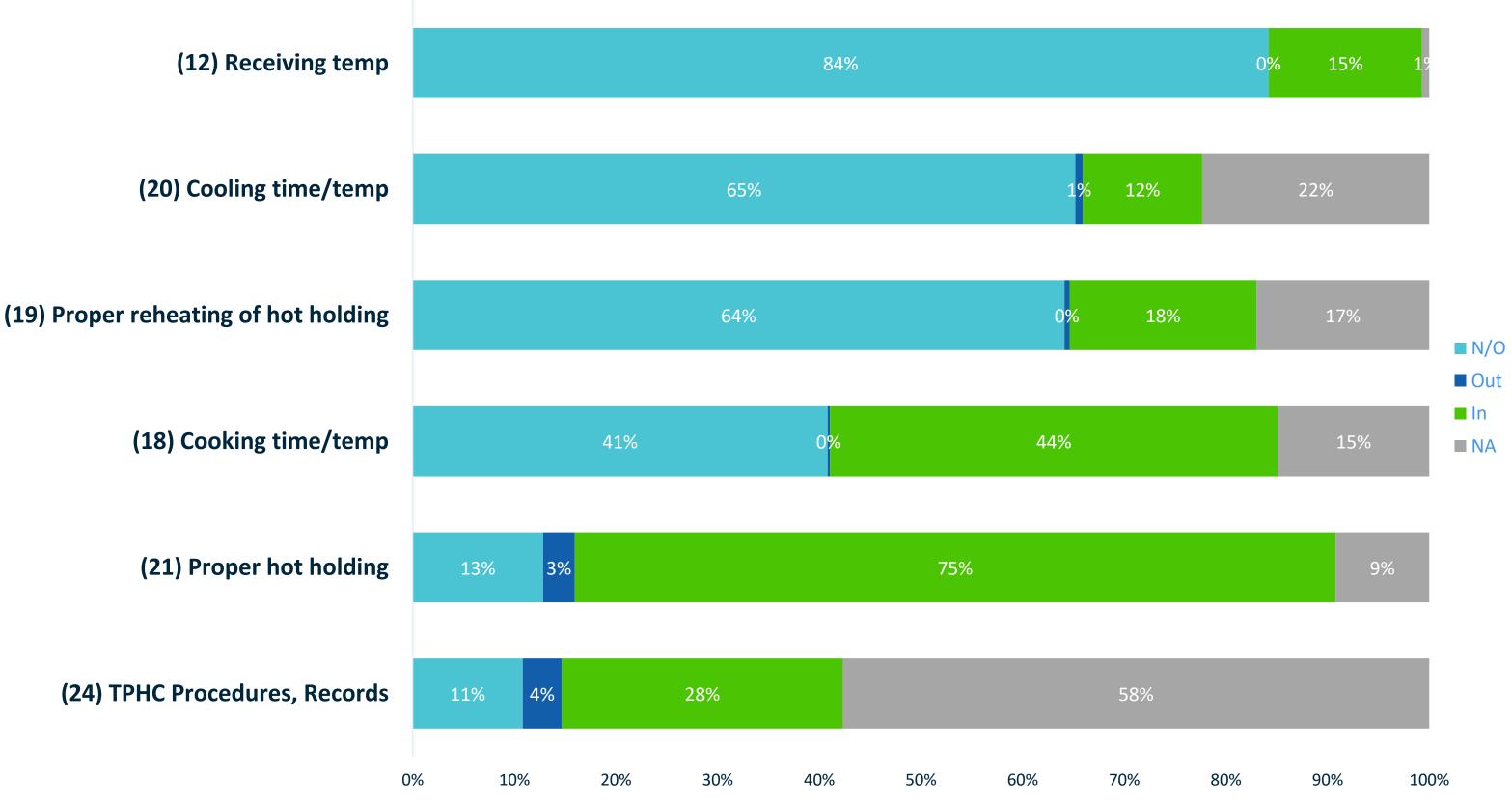
39,216



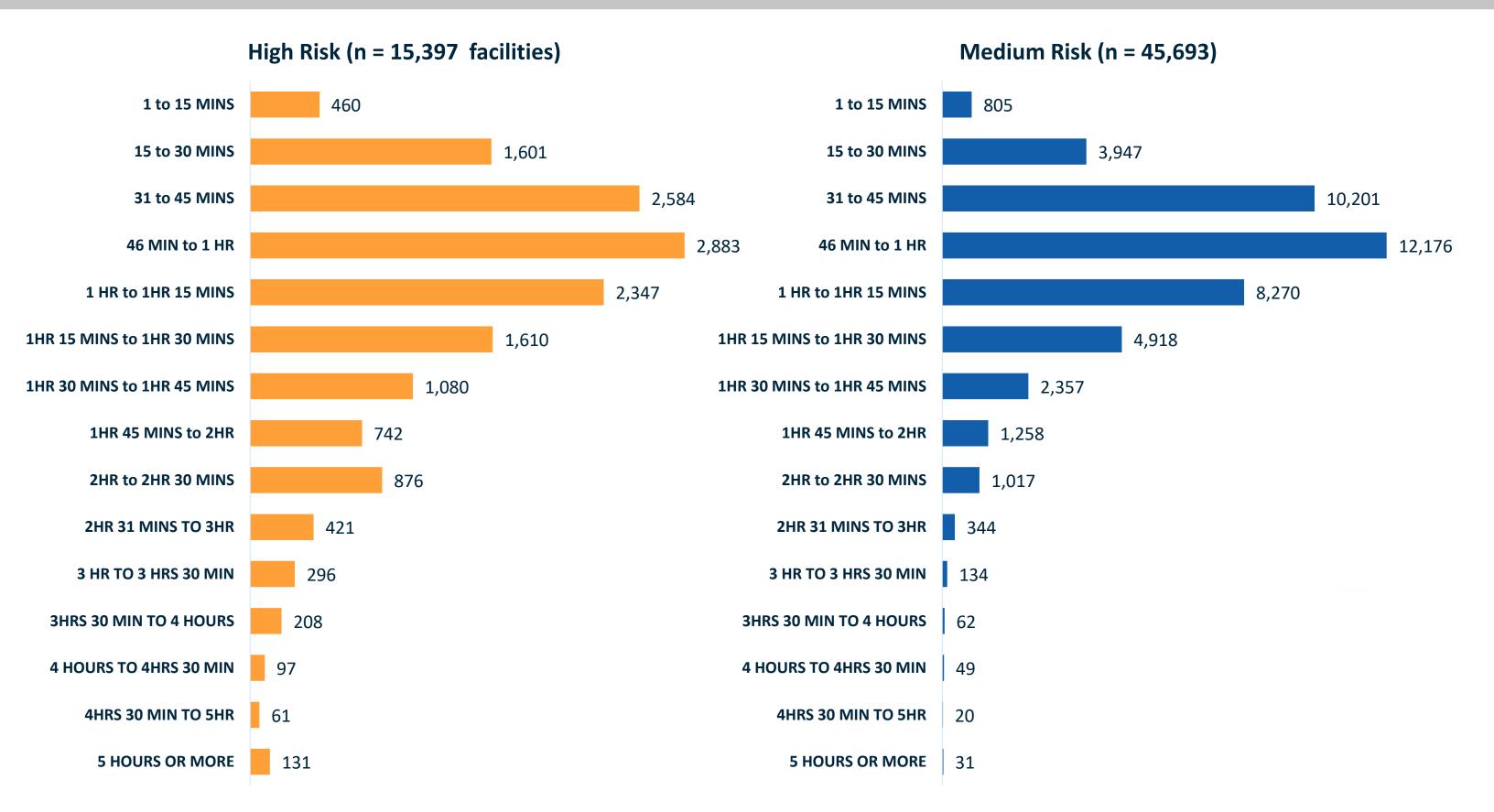




Key Foodborne Illness Risk Factor Compliance Status High or Medium Risk Retailers



Routine Inspection Duration – High and Medium Risk Facilities

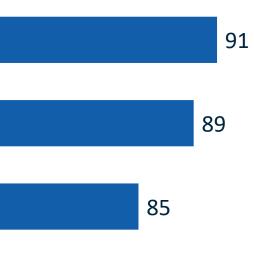




Routine Inspection Duration by State

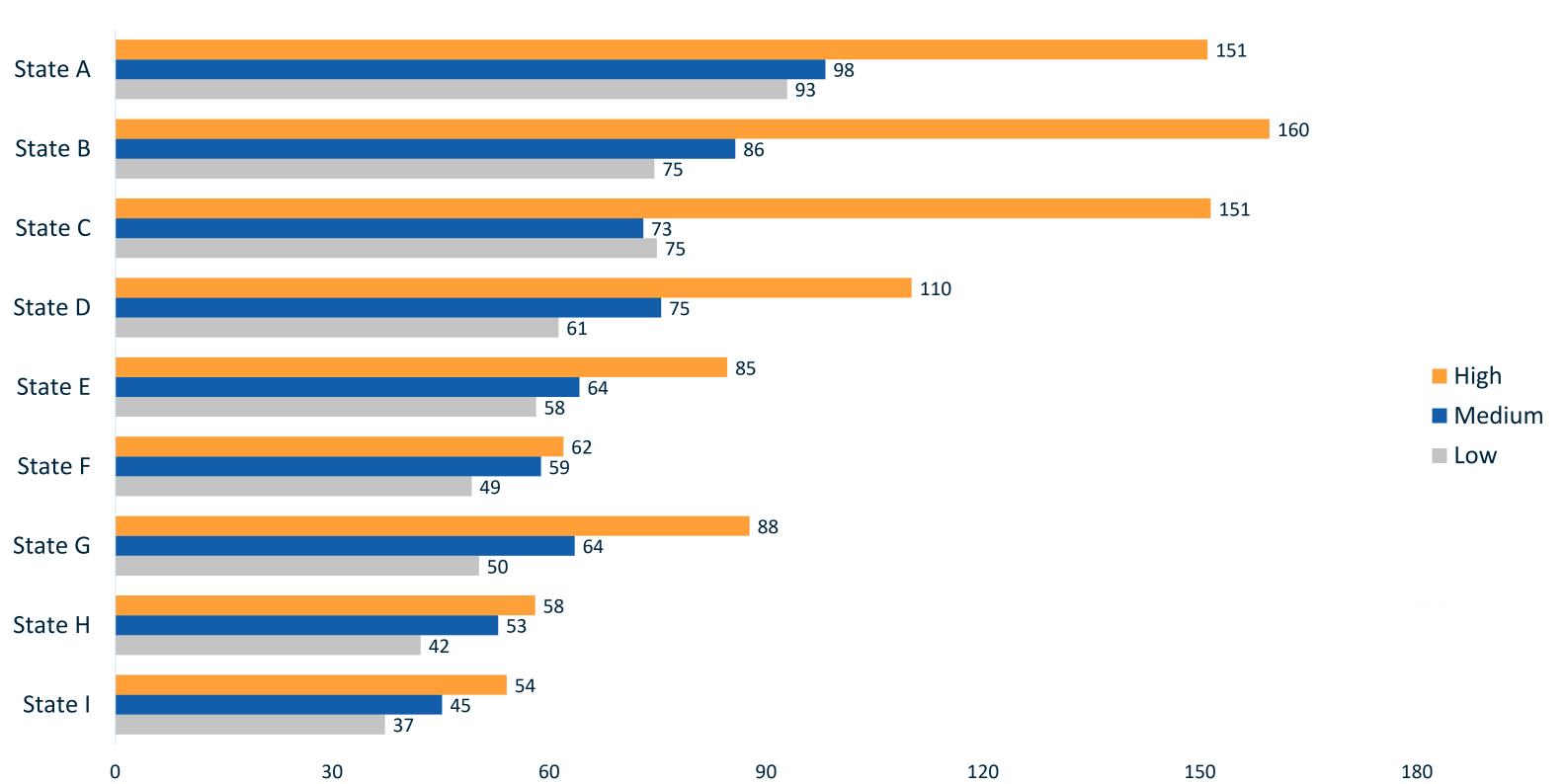
Overall Average = 59.2 minutes State A State B State C State D State E 66 State F 61 State G 55 State H 49 State I 44 15 75 30 60 0 45





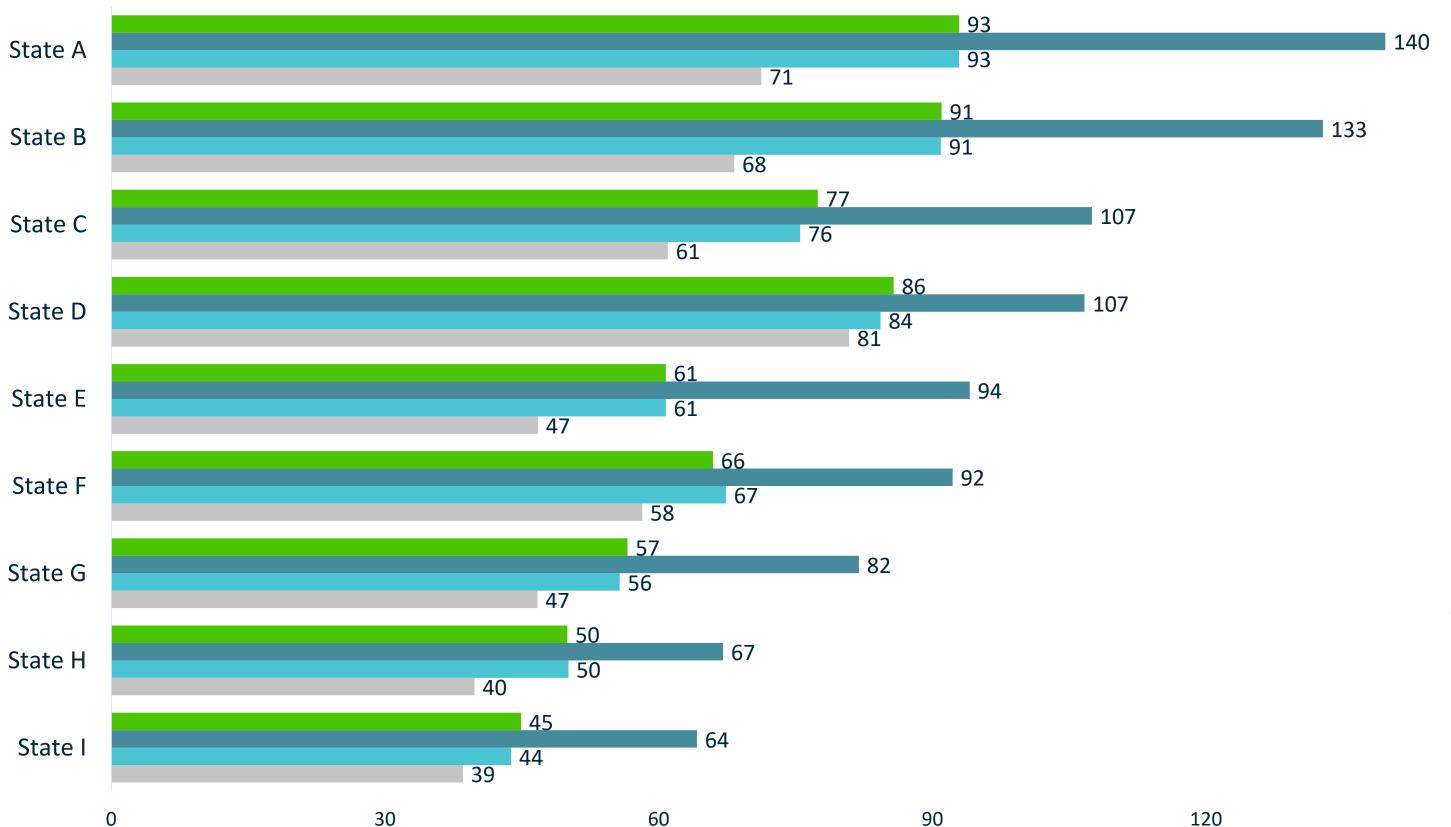


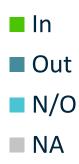
Routine Inspection Duration by State and Risk Level



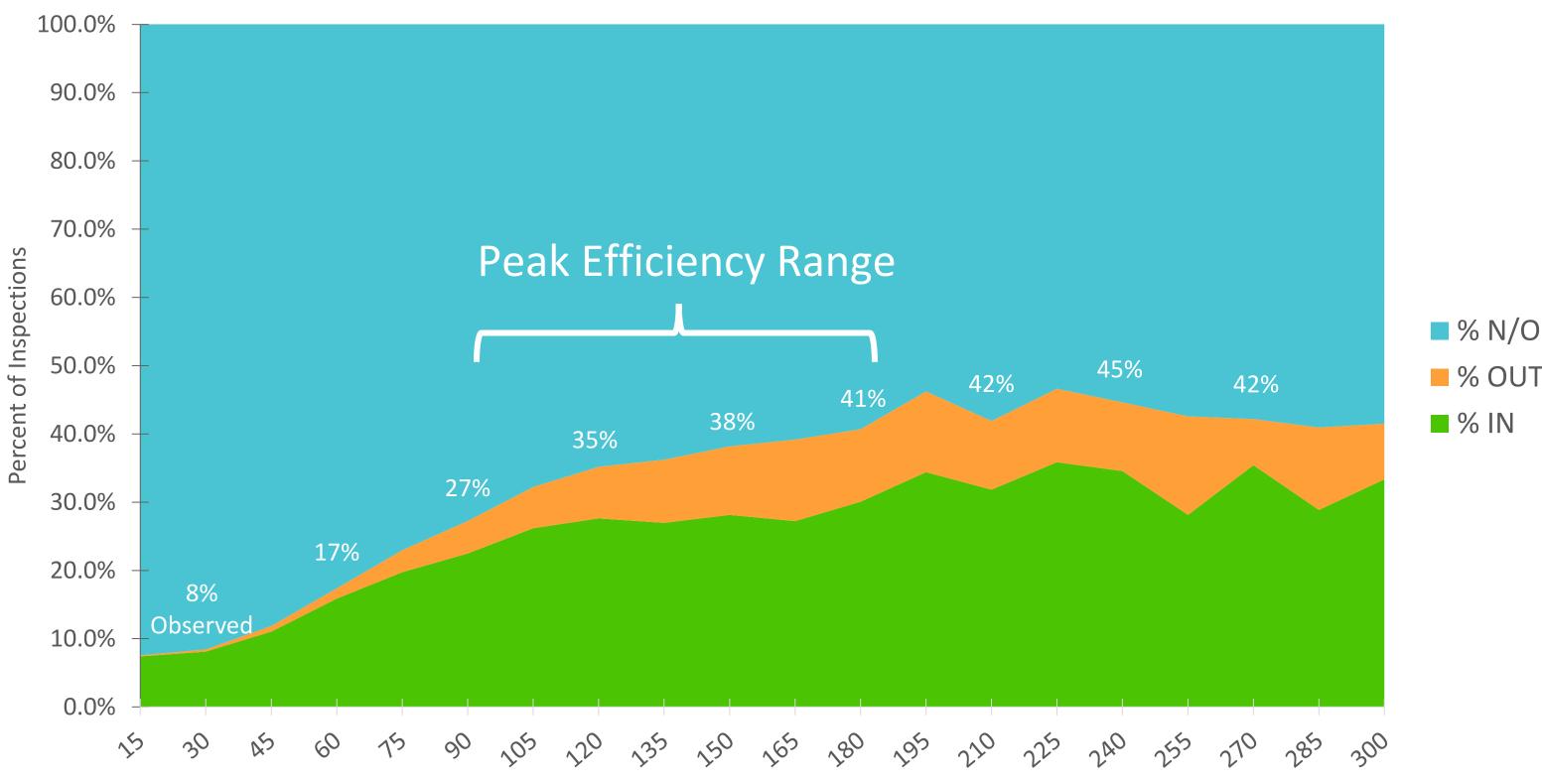


Average Duration of Inspections (in minutes) for the Compliance Status of Five Key Foodborne Illness Risk Factors, by State





Proper Cooling Time and Temperature Compliance Status by Inspection Duration



Inspection Duration in Minutes



Inspection Peak Efficiency Range

Similar analysis of key Foodborne Illness Risk Factor items suggests an inspection length peak efficiency range of

90 – 180 minutes

Key Foodborne Illness Risk Factor Items	Peak Efficiency Inspect
Proper Cooling Time and Temp	120 - 180 minutes
Proper Reheating of Hot Holding	105 - 180 minutes
Proper Cooking Time and Temp	105 - 165 minutes
No Bare Hand Contact with RTE Food	75 - 120 minutes
Hands Cleaned and Properly Washed	75 - 120 minutes
PIC Present, Knowledgeable, Performs Duties	120 - 180 minutes



tion Length

Are we focused on the right things?



Questions future data analysis can help answer

Are we observing the right things and inspecting at the right time? Are we looking for and finding the root cause of risk factor violations? Is compliance for the moment or permanent? Are our actions having a positive public health impact?







Foodborne Illness Investigations

- Foodborne illnesses and outbreaks must become a priority.
- Beginning conversations with industry when "signals" of a potential foodborne outbreak are evident.
- Resources: webinars, workshops, and training.



Resources



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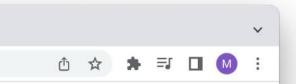
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Retail Food Regulatory Programs Directory Results

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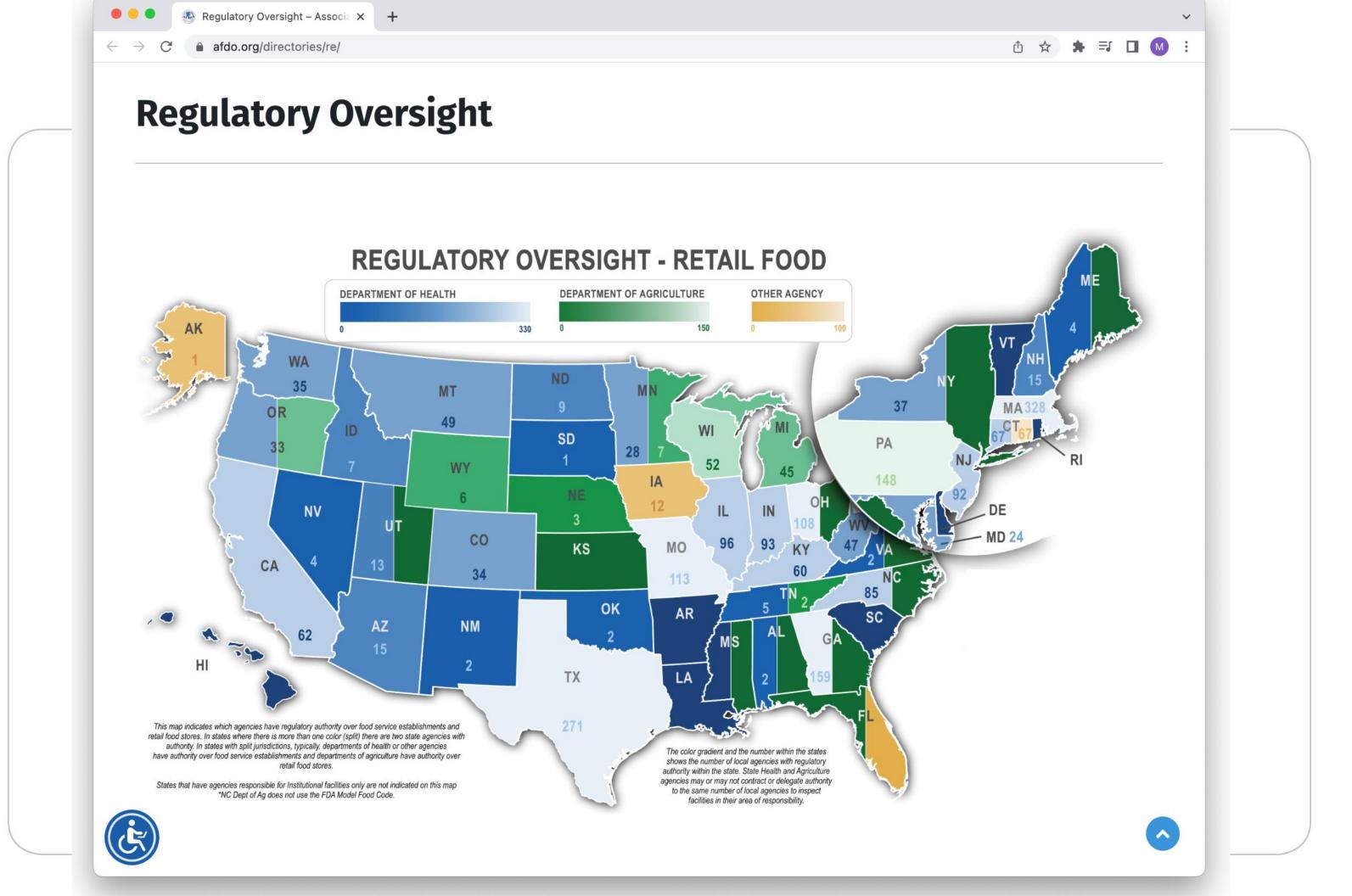
porary Facility, Mobile Facilities, venience Store, Grocery e, Food Service, aurant

CODE VERSION:

IFIED FOOD PROTECTION AGER:

certified manager ired per establishment







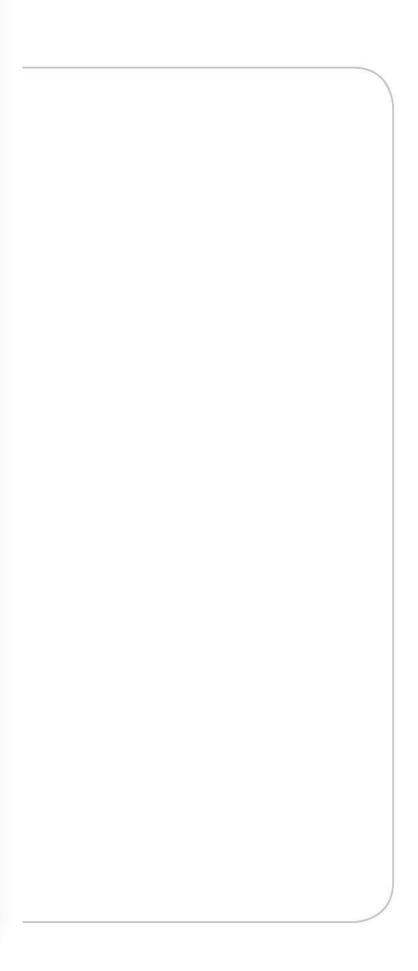


Retail Food Guide For Developing HACCP Plans for Special Processes



Meeting the Requirements of the FDA Food Code in Relation to Specialized Processing Methods at Retail

April 3, 2023



Public Health Focused Programs

Performance Metrics for Program and Staff Public Health Focused

Data Is Frequently Used Monitor Progress and Changes Made as Needed

Leaders Must Change and Evolve Programs: Today's Answer Likely Isn't Tomorrow's Answer



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