

A 'Readiness Rating' for **Balancing Biosecurity Priorities** in FMD Preparedness and Response

by Richard Horwitz for the

Open Session of the European Commission for the Control of FMD

Cascais, Portugal – October 26, 2016





Topics

Tension in Response Priorities

SMS Project in New England

Readiness Rating





Objectives, Benchmarks and Risks in **Managing Milk Movement**

OBJECTIVE

What is the main aim of biosecurity in SMS permitting?

DISEASE CONTROL

BENCHMARK

How high should the bar be set to allow milk movement?

HIGH and FIRM

Up to a standard that best eliminates risk of infection

FLEXIBLE

Up to a standard that a critical mass of stakeholders can meet

RISK

What hazard lies on the "safe side" of error?

TOO DISRUPTIVE

Shut down too many operations

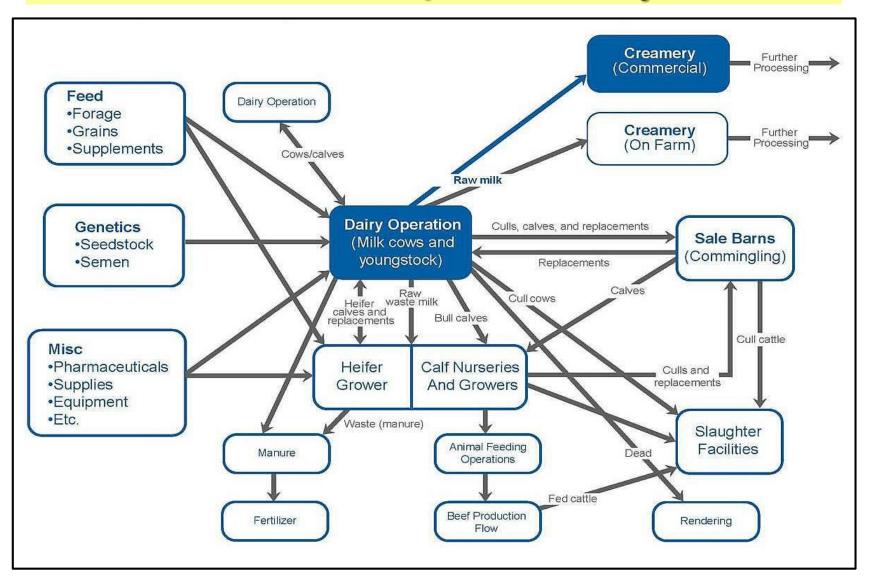
TOO PERMISSIVE

Shut down too few operations

BUSINESS CONTINUITY



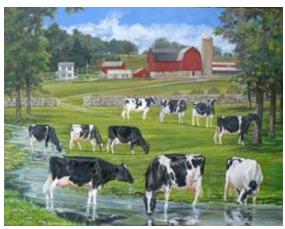
Routine Traffic to/from Dairy Farms



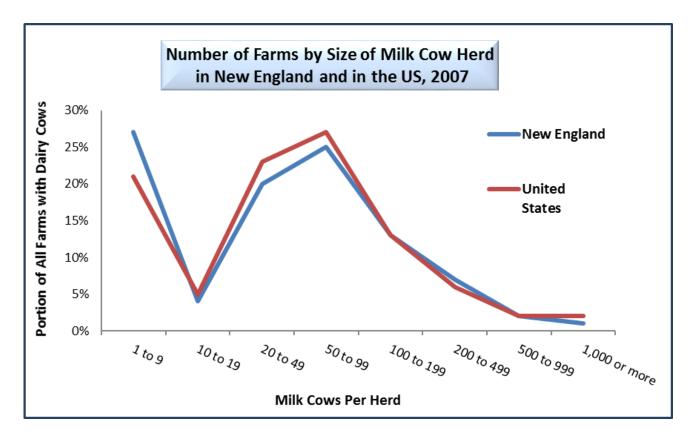


Dairy Farming: Iconic New England





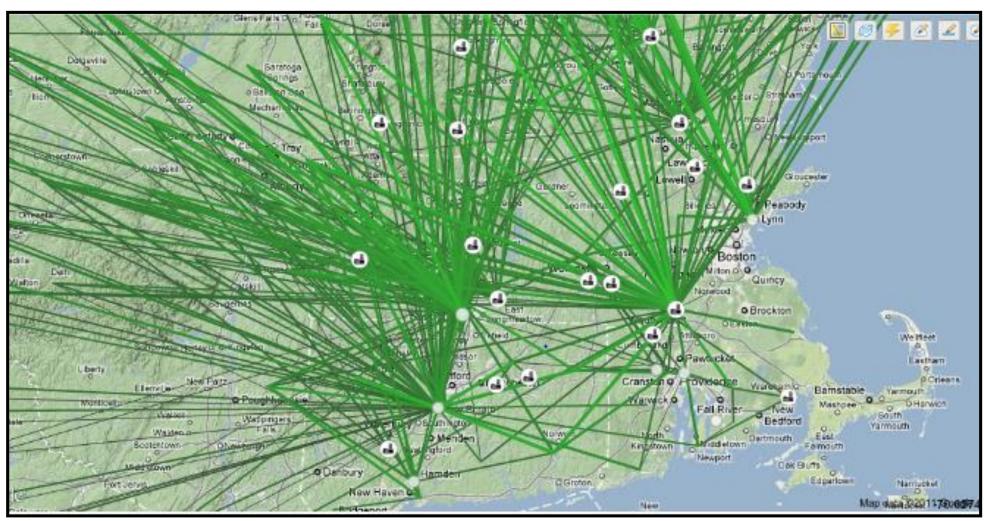






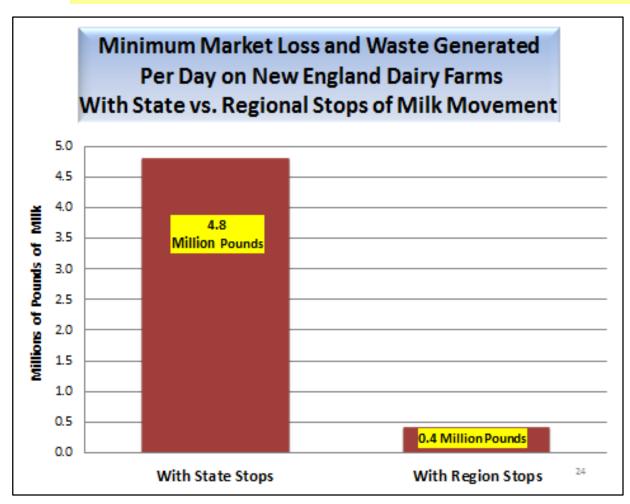
Dairy Farm-to-Market Traffic in New England

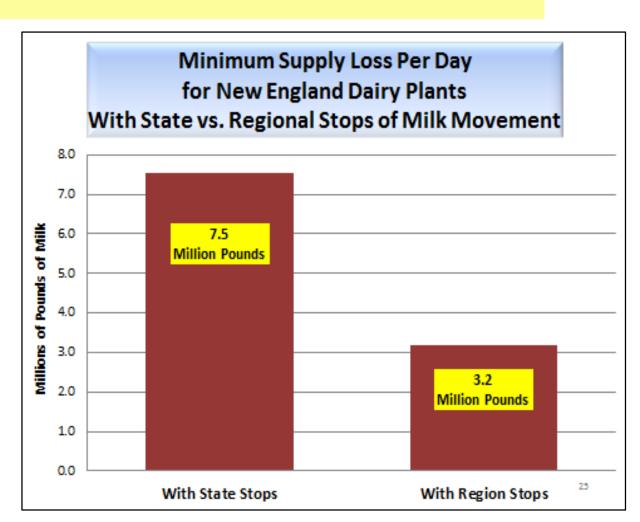






Stakes, If Dairy Traffic Interrupted in New England







Regional Agreement

Memorandum of Understanding On the New England Secure Milk Supply Plan



1.0Purpose

This Memorandum of Understanding (MOU) sets forth a framework for cooperation among agencies of the states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont (Cooperating States). It draws on principles authorized in the Charter of the New England Animal Agricultural Security Alliance (NESAASA), signed by the Governors of the six states on July 21, 2010.

This (MOU) is intended to advance adoption of the New England Secure Milk Supply (SMS) Plan that NESAASA has been developing since its charter. The Plan specifies conditions under which unpasteurized milk may be permitted to move from farms to processing plants during a Foot-and-Mouth Disease (FMD) outbreak. This MOU establishes principles under which the New England states agree to use the Plan in response to an outbreak of FMD.



On-line Resources



New England States Animal Agricultural Security Alliance

NESAASA

NE SMS PROJECT

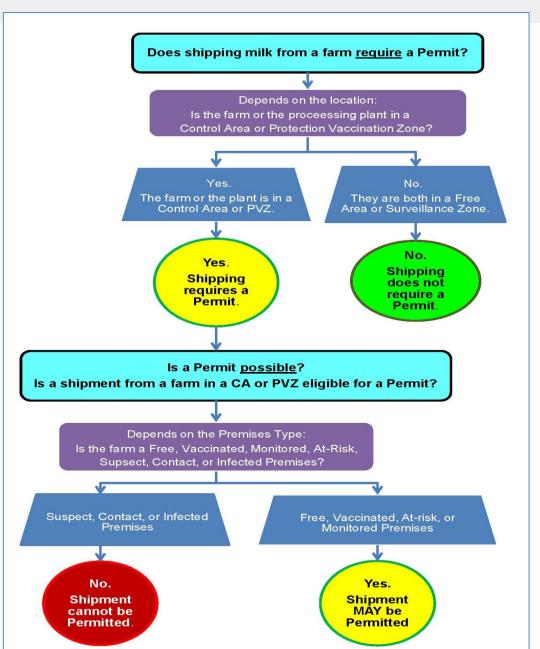
NE SMS PLAN

FARM PREP MATERIALS

nesaasa.weebly.com



Decision Tree for Determining 'Eligibility' for **Permit to Move** Milk / COB









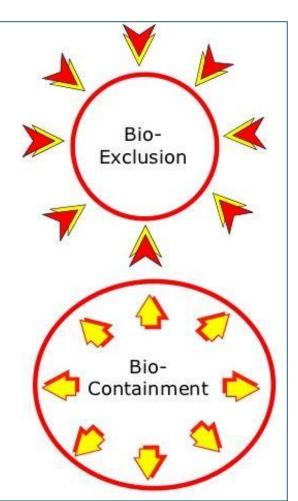


Biosecurity – Concept / Ideal

Bio-Security:

Bio-exclusion:

Keeping infectious organisms from entering a facility or population



Bio-containment

Keeping infectious organisms from leaving a facility or population





Biosecurity – Avatar



USDA United States Department of Agriculture Animal and Plant Health Inspection Service









Pirates of the Caribbean - The Canine Calamity

Poor biosecurity in US 'has helped spread bird flu'



From www.worldpoultry.net - July 5, 5:53 AM

"Poor biosecurity and airborne infection have played a key role in the spread of high pathogenic avian influenza in the US this year, a report from the country's Animal and Plant Health Inspection

Service (Aphis) has suggested."





Bottom of NESAASA "Project" Page

Resources for Managing Readiness Data

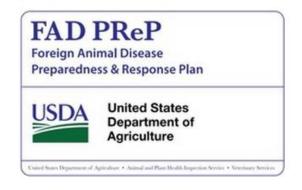
- Log-in for regulatory authorities to manage data on milk producers, processors, and haulers (IIAD)
- Log-in for regulatory authorities to manage IDs and passwords for access to dairy data (IIAD)
- Log-in for regulatory authorities to compare and weigh Readiness criteria (Decision Lens)

Richard P. Horwitz, Consultant to NESAASA and USDA-APHIS, 2010-2015









FOOT-AND-MOUTH DISEASE RESPONSE PLAN THE RED BOOK

White Paper – Justification and Discussion

Biosecurity, Infection Control, and Continuity of Dairy Operations in FMD Response: A New England Perspective



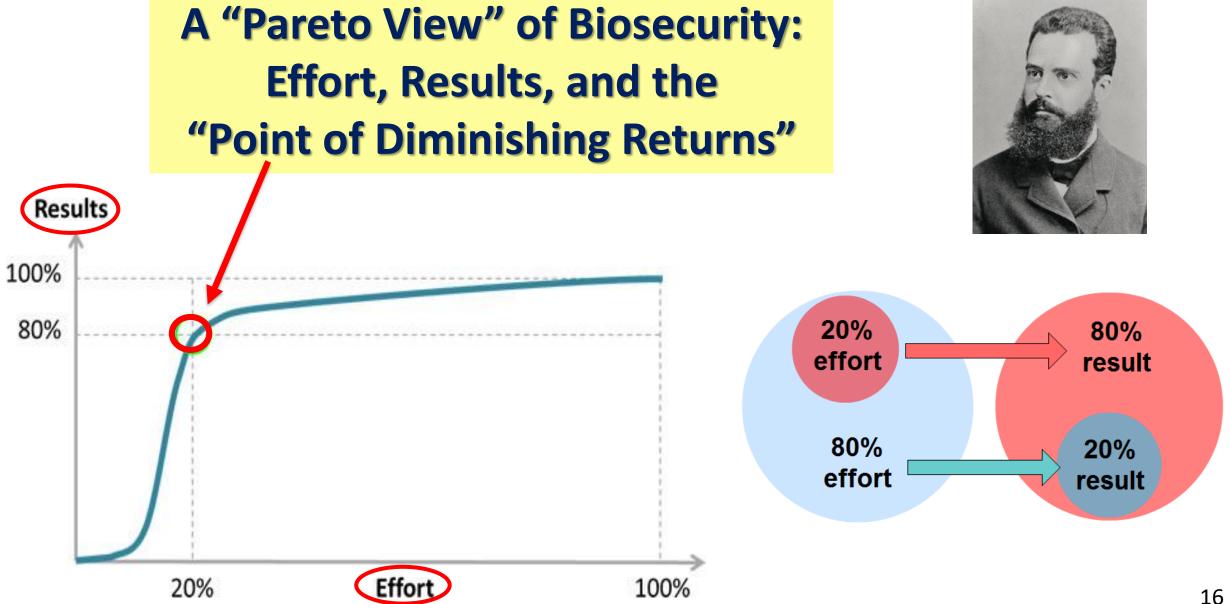
by

Richard P. Horwitz, Ph.D. Consultant

Key Points

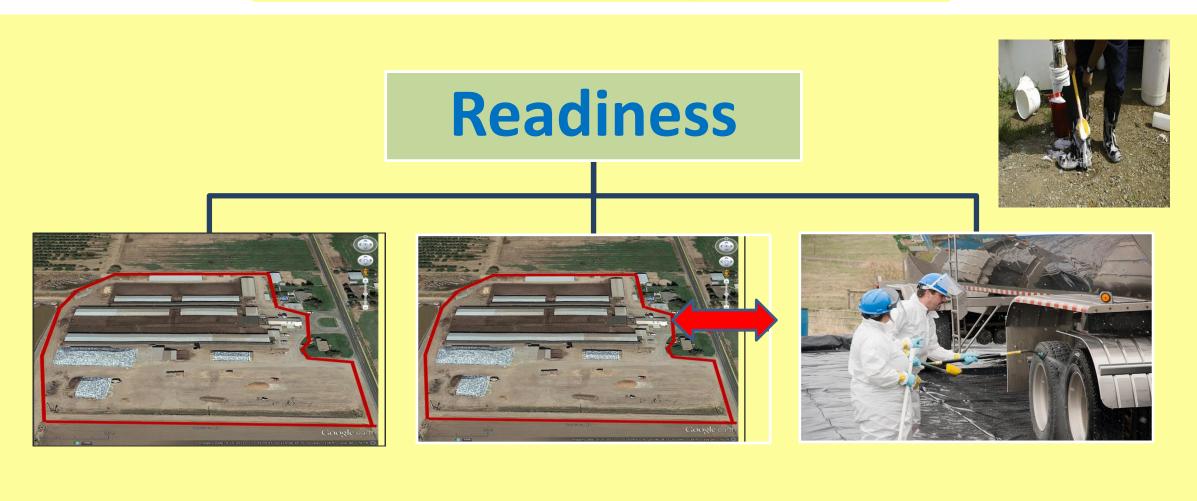
- Defend difference in New England Plan: flexible and feasible.
- Anticipate conflict in aims: disease control vs. business continuity.
- Recognize limits of "science" and resources in response and remediation.
- Extend lessons of "infection-control" in human health care facilities.





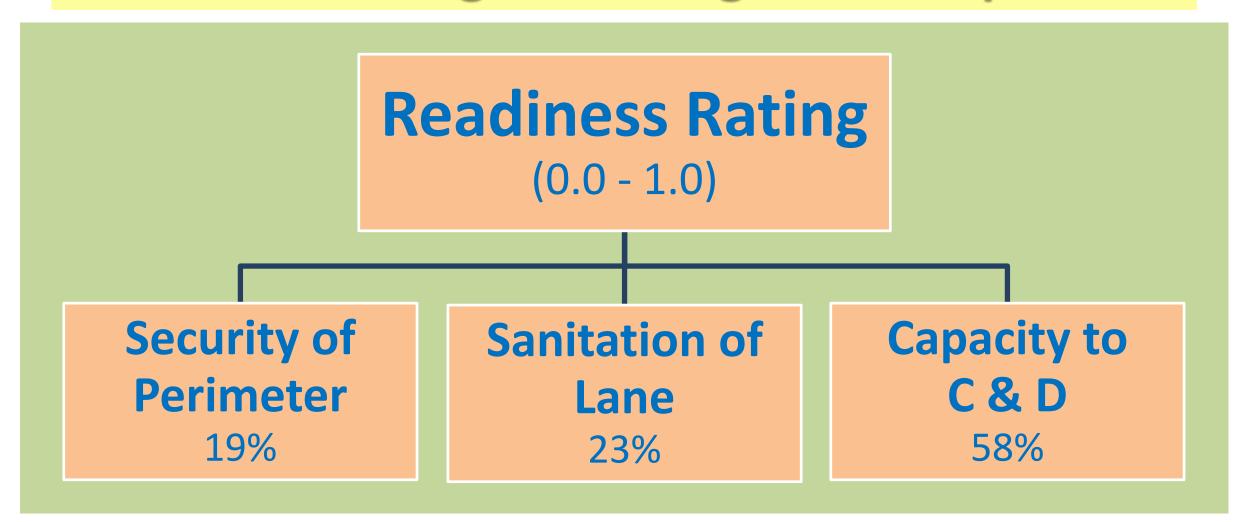


SMS Biosecurity Criteria





Readiness Rating with Weighted Components



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Objectives, Benchmarks and Risks in Managing Milk Movement

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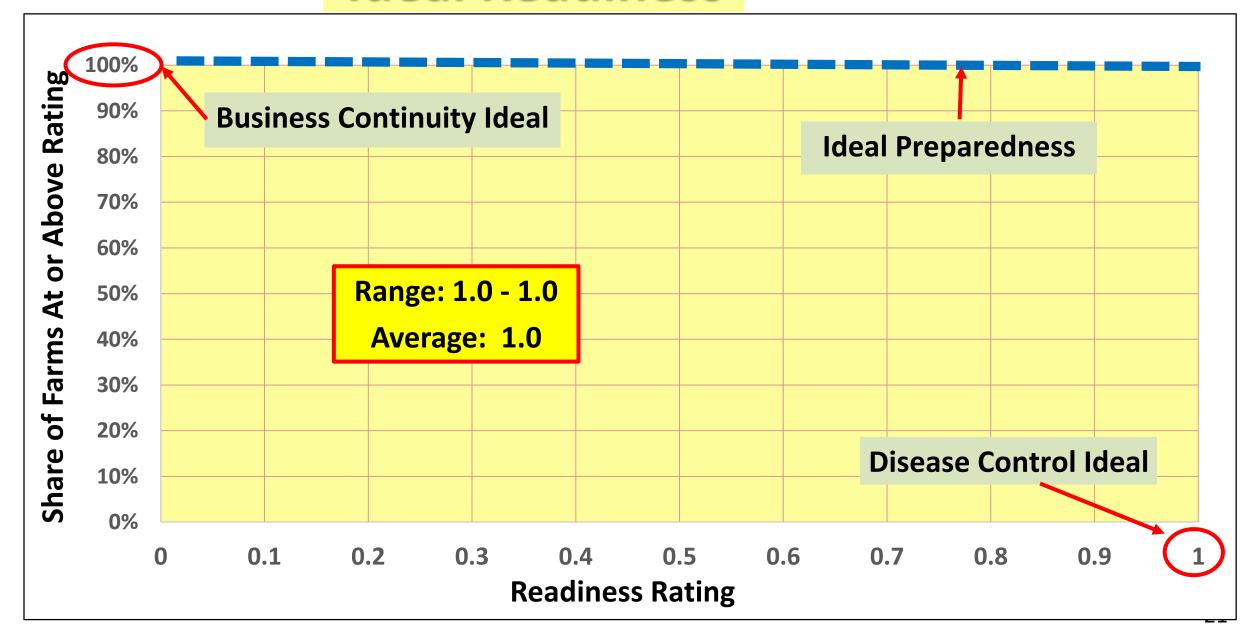
Progress in Assessment of Farms



Coverage – about 70 % of all licensed dairy farms in six states

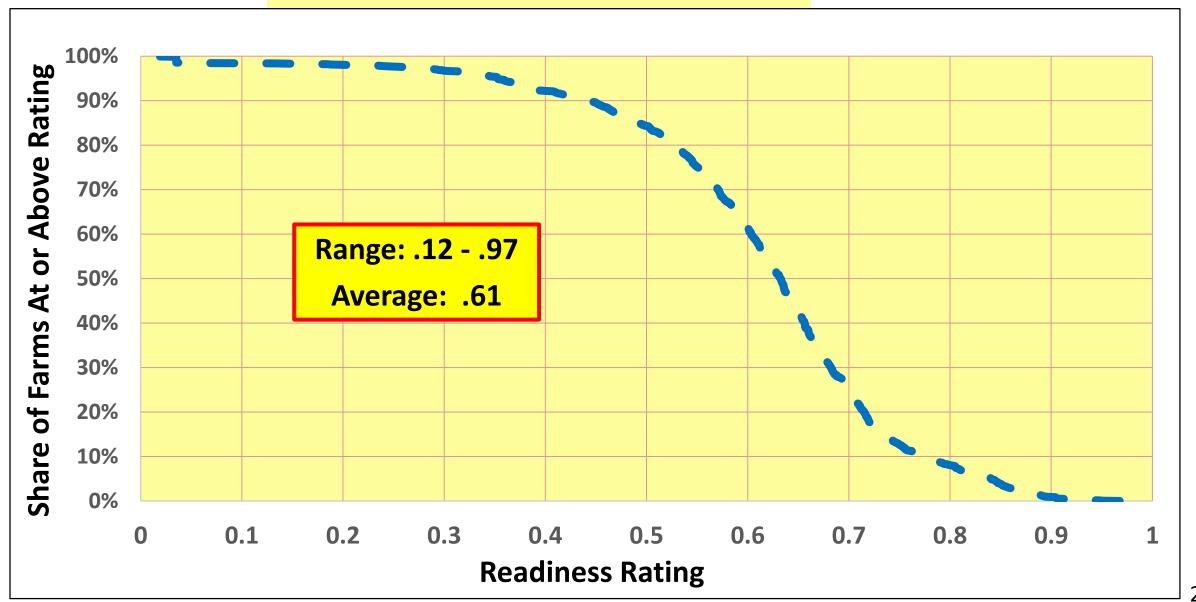


Ideal Readiness





Actual Readiness, 2016





Exercises

2014 in Concord, NH and 2015 in White River Junction, VT

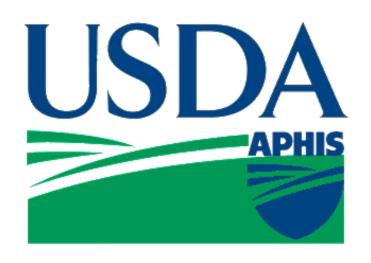








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Contact Information

On-line at NESAASA.weebly.com



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