PUBLIC HEALTH PREPAREDNESS:

STRENGTHENING THE NATION'S EMERGENCY RESPONSE STATE BY STATE

A REPORT ON CDC-FUNDED PREPAREDNESS AND RESPONSE ACTIVITIES IN 50 STATES, 4 CITIES, AND 8 U.S. INSULAR AREAS

SEPTEMBER 2010



INDIANA KANSAS

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Centers for Disease Control and Prevention Office of Public Health Preparedness and Response

Dedication



This report is dedicated to the memory of Diane Berry Caves, who lost her life during the January 12, 2010 earthquake in Haiti while on a 3-week assignment to improve Haitian HIV/AIDS programs. A dedicated public

health professional, Diane led the development of the first CDC report on public health preparedness, lauded by many as innovative, and played integral roles in the strategic development of the two succeeding reports. These reports demonstrate accountability and drive program improvement for public health preparedness and response.

In acknowledgement of her sacrifice, Diane was posthumously awarded the U.S. Department of State Thomas Jefferson Star for Foreign Service. This award recognizes people seriously injured or killed while traveling or serving abroad on official business. The award was signed by President Obama and bestowed by Secretary of State Clinton at a Memorial Ceremony in May 2010. CDC planted a Glory Maple tree in Diane's honor at its headquarters in Atlanta, GA.

Public Health Preparedness:

Strengthening the Nation's Emergency Response State by State

A Report on CDC-funded Preparedness and Response Activities in 50 States, 4 Cities, and 8 U.S. Insular Areas

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Reports on public health preparedness are an important part of CDC's overall focus on demonstrating results, driving program improvements, and increasing accountability for the nation's investment in public health preparedness.

Preface

Public Health Preparedness: Strengthening the Nation's Emergency Response State by State presents data on preparedness activities taking place at state and local health departments in 50 states, 4 localities (Chicago, the District of Columbia, Los Angeles County, and New York City), and 8 U.S. insular areas located in the Atlantic and Pacific oceans.¹ All are funded by the Centers for Disease Control and Prevention's (CDC) Public Health Emergency Preparedness (PHEP) cooperative agreement.

Reports on public health preparedness are an important part of CDC's overall focus on demonstrating results, driving program improvements, and increasing accountability for the nation's investment in public health preparedness. CDC has now released three preparedness reports; this is CDC's second report with state-by-state data on preparedness activities. It includes updates (when available) to data presented in CDC's first state preparedness report, Public Health Preparedness: Mobilizing State by State (2008),² as well as new data on state and local preparedness activities. In 2009, Congress expressed its desire for CDC to continue to report state-by-state data.³

Section 1 of this report focuses on core public health functions and provides national-level data on preparedness activities in laboratories and response readiness. Section 2 includes 54 data fact sheets for each of the 50 states and 4 localities, followed by a description of preparedness progress and challenges in the 8 U.S. insular areas.

Also included in this report are snapshots of preparedness and response activities and accomplishments occurring during the 2009 H1N1 influenza pandemic. Activities conducted in 2008 and 2009, the primary timeframes for data in this report, helped build and strengthen capabilities in the states and at CDC that were essential for responding to the pandemic.

All reported activities were supported by CDC's Terrorism Preparedness and Emergency Response funding (which includes PHEP). This report does not describe all preparedness activities conducted at CDC or in states and localities. For a description of the broader range of CDC preparedness and response activities, see CDC's second preparedness report, *Public Health Preparedness: Strengthening CDC's Emergency Response* (2009).⁴

How Different Audiences Can Use This Report

This report was written for a variety of audiences. States and localities can use this information to broaden their knowledge about progress and gaps in preparedness across their jurisdictions and throughout the nation.

Congress and other policymakers can gauge national public health preparedness as they read about many of the activities that states, localities, and insular areas have undertaken to improve public health preparedness.

Other federal departments and agencies and CDC partners (e.g., key public health associations) may gain a greater understanding of the scope of federally funded preparedness activities. This may help to generate new ideas for collaboration.

Within CDC, programs can use the report to gain a broader understanding of how states, localities, and U.S. insular areas are preparing for public health emergencies, their capabilities and gaps, and the challenges they face. This information can also be used as a tool to guide CDC's technical assistance to recipients of PHEP funds.

Executive Summary

Public health threats are always present. They include natural disasters; biological, chemical, and radiological incidents; and explosions. The impact of these threats can range from local outbreaks to incidents with national or global ramifications. The 2009 H1N1 influenza pandemic underscored the importance of communities being prepared for potential threats. Being prepared to prevent, respond to, and rapidly recover from public health threats can protect the health and safety of the public and emergency responders.

Public health preparedness is ongoing. Preparing adequately for public health

emergencies requires continual and coordinated efforts that involve every level of government, the private sector, nongovernmental organizations, and individuals. The Centers for Disease Control and Prevention (CDC) plays a pivotal role in efforts to prepare our nation for all types of public health threats.⁵

CDC's mission is to collaborate to create the expertise, information, and tools that people and communities need to protect their health. CDC seeks to accomplish this mission in preparedness by building and strengthening capabilities that can be used broadly for all types of hazards and tailored to particular incidents. Critical core public health capabilities include surveillance and epidemiology, laboratories, and response readiness activities that include communicating, planning, exercising, and evaluating.

CDC support to states, localities, and U.S. insular areas.⁶ CDC works with public health departments by providing funding, technical assistance, and coordination of activities for responding to public health threats. For severe emergencies, states, localities, and U.S. insular areas can request additional public health resources from CDC to assist with a response.

Preparedness funding. Congress has supported CDC public health preparedness and response activities by appropriating approximately \$1.5 billion per year since 2002. CDC's Office of Public Health Preparedness and Response (OPHPR; formerly the Coordinating Office for Terrorism Preparedness and Emergency Response)⁷ manages these funds, which support a wide variety of activities at CDC and at state and local levels. Congress appropriates three-quarters of this funding for two programs, the Public Health Emergency Preparedness (PHEP) cooperative agreement and the Strategic National Stockpile. OPHPR allocates the remainder of the funding to preparedness programs across CDC. In 2009, Congress also provided emergency supplemental funding in response to the 2009 H1N1 influenza pandemic.

Reporting on preparedness. To demonstrate how these federal investments are improving the nation's ability to respond to public health emergencies, CDC has published three preparedness reports.⁸ This is CDC's second report focusing on state preparedness activities, including capability-based performance measures for states and localities receiving PHEP funding. Fact sheets in this report cover activities occurring primarily from October 1, 2007 to September 30, 2008 (fiscal year 2008). In addition, some data from 2009 are included.



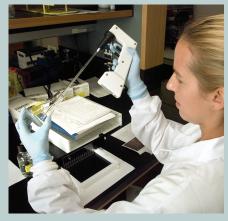
States, localities, and U.S. insular areas received supplemental funding to prepare for and respond to the 2009 H1N1 influenza pandemic. Funds were used to assess response capabilities and address remaining gaps in vaccination; antiviral drug distribution and dispensing; and laboratory, epidemiology, and surveillance activities. *Photo source: Boston Public Health Commission*

The Centers for Disease Control and Prevention plays a pivotal role in efforts to prepare our nation for all types of public health threats. While these data do not represent all preparedness activities occurring in states, localities, and U.S. insular areas, they significantly expand on the information provided in CDC's first state preparedness report published in 2008.⁹ All three CDC reports provide the most comprehensive picture available on the breadth of public health preparedness and response efforts across the nation.¹⁰

Strengthening Preparedness

Much progress has been made to build and strengthen national public health preparedness and response capabilities. Accomplishments highlighted in this report include the following:

- Biological laboratory capabilities and capacities were strong in most states and localities. Most laboratories in the Laboratory Response Network (LRN) could be reached 24/7, rapidly identified certain disease-causing bacteria and sent reports to CDC, and passed proficiency tests for detecting other biological agents. (See Table 3 on page 26.)
- A majority of LRN chemical laboratories demonstrated proficiency in core methods for detecting and measuring exposure to chemical agents, and some were



CDC manages the Laboratory Response Network, a group of local, state, federal, and international laboratories that can detect and characterize health threats.

Photo source: CDC

proficient in one or more additional methods identified by CDC as important for responding to chemical emergencies. (See Table 3 on page 26.)

- All states and localities could receive urgent disease reports 24/7, and most states used rapid methods to communicate with other laboratories for outbreaks, routine updates, and other needs. (See Table 8 on page 34.)
- All states received acceptable CDC review scores for their plans to receive, distribute, and dispense medical assets from CDC's Strategic National Stockpile and other sources. (See 2008-2009 data in Table 8 on page 34.)
- Most states and localities demonstrated the ability to activate and rapidly staff their emergency operations centers for drills, exercises, or real incidents, and developed after action reports and improvement plans following these activities. (See Table 8 on page 34.)

Moving Forward

CDC has identified the areas listed below for improving state and local preparedness.

Maintain preparedness gains and resolve gaps. Important gains have been made since CDC's 2008 state preparedness report in the areas of laboratory and response readiness. Data presented in this report show improvement in rapid laboratory testing for biological agents and readiness to receive, distribute, and dispense assets from CDC's Strategic National Stockpile. CDC will continue to work with state and local health departments to maintain these improvements and to identify and resolve gaps in these and other core capabilities important for preparedness and response. Improvements are needed in continuity of operations plans for state public health laboratories.

Build on the successes and lessons learned from the response to the 2009 H1N1 influenza pandemic. The first influenza pandemic in 40 years provided a real world test of our response capabilities. CDC is working with all levels and sectors of the public health and medical communities toward systematically assessing this response, developing plans to address identified gaps and challenges, and incorporating needed changes.

Ensure continuous funding to build and maintain a skilled state and local public health workforce. The surge in effort needed to respond to the 2009 H1N1 influenza pandemic placed an increased strain on a system already weakened by workforce shortages and budget shortfalls. The response revealed that the combination of the continued erosion of the general all hazards preparedness capacities, infrastructure, and staffing, along with the fiscal issues facing state and local governments proved to be challenging for public health departments. Preparing adequately for future outbreaks - and other public health emergencies that are inevitable and may occur simultaneously - requires predictable and adequate long-term funding to improve infrastructure, staffing, and training in the areas of surveillance, epidemiology, laboratories, and response readiness.

Expand performance measurement to assess and monitor preparedness activities and to drive program improvement and accountability. CDC will continue to work with state and local partners to develop



All 62 PHEP-funded states, localities and U.S. insular areas have plans to receive, distribute, and dispense medical assets from CDC's Strategic National Stockpile and other sources.

Photo source: Indiana State Department of Health

performance measures that are indicators of preparedness and response capabilities and align with the objectives of the National Health Security Strategy¹¹ as well as the Pandemic and All-Hazards Preparedness Act.¹² Major gaps exist for measuring preparedness in the areas of surveillance and epidemiology. New performance measures are being piloted for these areas as well as for laboratory activities.

Promote health and prevent disease, injury, and disability in communities. Healthy populations are more resilient to new health threats. State and local health departments must continue to strengthen their collaboration with individuals, families, and communities as essential partners in building resilience to all types of public health hazards. Building healthier communities also helps provide greater protection to populations who are more vulnerable during emergencies and supports broader CDC health protection goals and national health reform efforts.



Protecting the Nation from Public Health Threats

Whether caused by natural, accidental, or intentional means, public health threats are always present. Being prepared to prevent, respond to, and recover rapidly from these events can save lives and protect the health and safety of the public, including emergency responders.

What are public health threats?

Biological threats can be natural, accidental, or deliberate. They include viruses, bacteria, parasites, and fungi (or their toxins) that can cause illness or death in people, animals, or plants, and are spread through air, water, or food.

Natural disasters include extended heat waves, severe snow or ice storms, earthquakes, catastrophic hurricanes, and extensive floods. Other environmental threats include exposure to chemicals that pose carcinogenic, reproductive, developmental, and neurological risks.

Chemical and radiological materials released accidentally or intentionally could create large-scale public health emergencies, especially in densely populated areas.

Explosions – by far the most common cause of casualties associated with terrorism¹³ – can result in large numbers of casualties with complex injuries not commonly seen after natural disasters such as floods or hurricanes.

Who is responsible for responding to public health emergencies?

All response begins at the local level. State and local health departments are first responders for public health emergencies, regardless of whether they are local outbreaks or incidents with global ramifications, such as pandemics. Since 1999, CDC's Public Health Emergency Preparedness cooperative agreement has helped build and strengthen state and local capabilities that help ensure an effective emergency response, but significant challenges remain. Core public health functions needed for preparedness and response include surveillance, epidemiology, laboratories, and response readiness.

Individuals, families, and communities are essential partners for building community resilience to public health hazards. Community resilience is a goal of the National Health Security Strategy published in December 2009.¹⁴ A resilient community has the sustained ability to withstand and recover – in both the short and long term – from adversity, such as an influenza pandemic or terrorist attack.¹⁵ Vulnerable populations¹⁶ and those with chronic conditions, such as asthma and obesity, may require additional care during emergencies such as specialized medications, equipment, and other assistance.

Background

66 Preparedness continues to be a core focus for CDC. The best approach to preparedness is the best approach for public health – identify the problems you can do something about, develop and implement programs, rigorously evaluate their effectiveness, and look for ways to improve them. 99

Public health threats are always present. They include natural disasters; biological, chemical, and radiological incidents; and explosions. The impact of these threats can range from local outbreaks to incidents with national or global ramifications. The 2009 H1N1 influenza pandemic underscored the importance of communities preparing for potential threats to the public's health. Being prepared to prevent, respond to, and rapidly recover from public health threats can protect the health and safety of the public and emergency responders. The Centers for

- Thomas Frieden, MD, MPH CDC Director

Disease Control and Prevention (CDC) plays a pivotal role in preparing our nation for all types of public health threats.¹⁷

This report was developed as the nation was responding to the 2009 H1N1 influenza pandemic. Preparedness activities conducted in 2008 and 2009, the primary timeframes reflected in this report, helped strengthen state and CDC capabilities for responding to the outbreak and increased the resiliency of communities across the nation. Text boxes on state and local response to the pandemic appear throughout this report.

Pandemic Planning Helps States Respond Rapidly to the 2009 H1N1 Influenza Pandemic



In April 2009, CDC and the public health workforce faced the first influenza pandemic in 40 years. As the initial cases of H1N1 influenza began to emerge in the United States, local, state, and federal public health entities quickly took measures to understand the patterns of the illness, slow its spread, and mitigate its effects.

States began to implement their pandemic plans as the number of 2009 H1N1 influenza cases increased throughout the spring in the United States, Mexico, and other countries. At the time, its course was far from certain, with the possibility of multiple waves of outbreaks throughout the fall and winter.

Federal investments in pandemic planning (see page 11) helped states lessen the impact of the pandemic through increased disease monitoring, ongoing communication updates to keep the public informed, more effective use of existing resources, appropriate use of mitigation measures, implementation of H1N1 vaccination campaigns, and coordination of response efforts with new and established partners nationwide and in other countries. Also critically important were the expansion of state laboratory capabilities for detecting and confirming the virus, and, when necessary, activation of processes for states and localities to receive medical supplies such as antiviral drugs and respirators from CDC's Strategic National Stockpile. Pandemic planning also allowed time for thoughtful deliberation and identification of challenging decision points, all of which supported accelerated decision making during real events.



Response to public health emergencies begins at the local level. Pictured is an H1N1 vaccination clinic in Calistoga, California. Federal investments in pandemic planning helped states lessen the impact of the pandemic.

Photo source: California Department of Public Health

Many lessons from the 2009 H1N1 influenza pandemic are being identified. An overarching lesson is the need for a sustained commitment to continued planning, training, and exercising to help ensure rapid and effective responses to future challenges that may threaten the public's health.

Preparedness and Response Efforts Require Work at All Levels

While response begins at the local level, public health preparedness requires a coordinated effort involving every level of government, the private sector, non-governmental organizations, and individuals. Being prepared to prevent, respond to, and recover from all types of public health threats requires that states improve their capabilities in the core public health functions of surveillance and epidemiology, laboratories, and response readiness.

Federal response to public health emergencies. Lead federal responsibility for emergency response lies with the U.S. Department of Homeland Security (DHS), whose National Response Framework established a single, comprehensive structure for responding to all types of hazards.¹⁸ In addition, the DHS National Preparedness Guidelines provide the vision, capabilities, and priorities for national preparedness.

Under the National Response Framework, the U.S. Department of Health and Human Services (HHS) coordinates federal assistance supplementing state, tribal, and local resources in response to public health and medical disasters.¹⁹ The Assistant Secretary for Preparedness and Response (ASPR) is the principal advisor to the HHS Secretary on all matters related to bioterrorism and other public health emergencies. ASPR works with other federal departments and agencies and is charged with the overall coordination and oversight of emergency preparedness and response activities within HHS. ASPR responsibilities include the coordination of public health response activities related to CDC, which is an operating division of HHS.

CDC is working collaboratively to implement the National Health Security Strategy (NHSS).²⁰ The NHSS is a comprehensive strategy established to galvanize efforts to minimize the health consequences associated with significant health incidents. National health security is a state in which the nation and its people are prepared for, protected from, and resilient in the face of health threats or incidents with potentially negative health consequences. The NHSS' vision for health security is based on a foundation of community resilience – healthy individuals, families, and communities with access to health care and with the knowledge and resources to know what to do to care for themselves and others in both routine and emergency situations. The vision also emphasizes strong and sustainable public health, health care, and emergency response systems.

CDC mission and preparedness. CDC's mission is to collaborate to create the expertise, information, and tools that people and communities need to protect their health. CDC seeks to accomplish this mission in preparedness by building and strengthening capabilities that can be used broadly for all types of hazards, whether they are biological agents, natural disasters, environmental exposures, chemical and radiological materials, or explosions. In addition, CDC develops capabilities that are tailored to particular hazardous incidents.

Public Health Preparedness

The capability of the public health system, communities, and individuals to prevent, protect against, quickly respond to, and recover from health emergencies, particularly those in which scale, timing, or unpredictability threatens to overwhelm routine capabilities.²¹

CDC support to states, localities, and U.S. insular areas. CDC also works with state, local, and U.S. insular area public health departments by providing funding, technical assistance, and coordination of activities for responding to public health threats. For severe emergencies, states, localities, and U.S. insular areas²² can request additional public health resources from CDC to assist with a response.

To examine how this federal investment is improving the nation's ability to respond to public health emergencies, CDC has been developing and implementing capability-based performance measures. The passage of the Pandemic and All-Hazards Preparedness Act (PAHPA, 2006)²³ by Congress highlighted the



CDC's mission is to collaborate to create the expertise, information, and tools that people and communities need to protect their health.

Photo source: CDC

CDC's PHEP cooperative agreement funds 62 state, locality, and U.S. insular area public health departments to build and strengthen their abilities to respond effectively to public health emergencies. importance of CDC's work in developing such metrics. PAHPA requires the development of measurable preparedness benchmarks and objective standards for recipients of CDC Public Health Emergency Preparedness (PHEP) cooperative agreement funding. Funding to state and local agencies was linked to their performance in these standards beginning in fiscal year (FY) 2009.²⁴ (For more information on performance measures, see page 12.)

Partnering to improve emergency response.

CDC and public health departments work with multiple partners from a variety of sectors. Key partners include the American Red Cross, Association of Public Health Laboratories, Association of Schools of Public Health, Association of State and Territorial Health Officials, Council of State and Territorial Epidemiologists, National Association of County and City Health Officials, and National Emergency Management Association. These organizations share promising practices, conduct research, and provide training to public health professionals to improve preparedness and emergency response.

Funding Supporting Public Health Preparedness and Response

Congress has supported CDC public health preparedness and response activities by appropriating approximately \$1.5 billion per year since 2002. This Terrorism Preparedness and Emergency Response funding supports a wide variety of activities at CDC and at state and local levels.

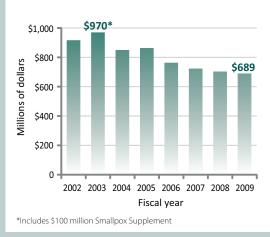
CDC's Office of Public Health Preparedness and Response (OPHPR; formerly the Coordinating Office for Terrorism Preparedness and Emergency Response)²⁵ is responsible for managing these funds. Congress appropriates over three-quarters of this funding for two CDC programs, the PHEP cooperative agreement and the Strategic National Stockpile. OPHPR allocates the remainder of this funding to preparedness programs across CDC. (See appendices 3 and 4 for more details on funding levels.) Congress has also provided emergency supplemental funding to address preparedness needs related to specific health threats such as pandemic influenza.

PHEP cooperative agreement. CDC's PHEP cooperative agreement funds 62 state, locality, and U.S. insular area public health departments to build and strengthen their abilities to respond effectively to public health emergencies.²⁶ PHEP funding has declined from \$970 million in FY 2003 to \$689 million in FY 2009. (See box below and appendix 4 for historical PHEP funding levels.)

PHEP-funded emergency preparedness and response efforts support the National Response Framework and are targeted specifically for the development of emergencyready public health departments that are flexible and adaptable. The Division of State and Local Readiness within OPHPR manages the PHEP cooperative agreement, provides direction on preparedness activities, and coordinates technical assistance.

Included in the PHEP cooperative agreement funding is support for the Cities Readiness Initiative of CDC's Strategic National Stockpile. This program focuses on enhancing

Public Health Emergency Preparedness Cooperative Agreement Funding



PHEP funding has declined from \$970 million in FY 2003 to \$689 million in FY 2009. *Source: HHS and CDC*



Supplemental funding was used to provide additional resources for mass vaccination planning and implementation, and to support the 2009 H1N1 vaccination campaign. Pictured is an H1N1 vaccination clinic in Cambridge, Massachusetts.

Photo source: Cambridge Public Health Department

preparedness for responding to a largescale bioterrorist event within 48 hours in the nation's largest cities and metropolitan statistical areas, where more than half of the U.S. population resides.²⁷

Strategic National Stockpile. CDC's Strategic National Stockpile is a national repository of critical medical supplies designed to supplement state and local public health departments in the event of a large-scale public health emergency. Funds are also used to support technical assistance at state and local levels to receive, distribute, and dispense the supplies. Stockpile assets help ensure that key medical supplies are available to prepare for and respond to emergencies. Stockpile funding averaged approximately \$495 million for FY 2002-2009. (See appendix 3 for Stockpile funding levels.)

Additional funding for pandemic influenza. Recognizing the need to prepare for a possible influenza pandemic, Congress appropriated two other sources of funding specifically for pandemic influenza preparedness activities. Beginning in 2005 and continuing through 2008, CDC awarded approximately \$524 million in Pandemic Influenza Supplement funds to the 62 PHEP-funded states, localities, and U.S. insular areas for program operations to prepare for and respond to an influenza pandemic. (See appendix 4 for Pandemic Influenza Supplement funding levels.)

Subsequently, as the nation faced the 2009 H1N1 influenza pandemic, Congress provided funding through the 2009 Supplemental Appropriations Act²⁸ for the Public Health and Social Services Emergency Fund to prepare for and respond to an influenza pandemic. Since July 2009, CDC has administered \$1.4 billion from this fund through the Public Health Emergency Response (PHER) grant specifically for the 2009 H1N1 pandemic influenza response. (See appendix 5 for PHER funding levels.) PHER funds were used for assessing response capabilities and addressing remaining gaps in vaccination; antiviral drug distribution/ dispensing; and laboratory, epidemiology, and surveillance activities. Funds were also used to provide additional resources for mass vaccination planning and implementation, and to support the implementation of 2009 H1N1 vaccination campaign.

Cutbacks in state public health investments. The 2008-2009 economic crisis had a negative impact on state investments in public health

programs. As states faced sharp downturns in tax revenues, many cut budgets and reduced services, including those affecting the public health system. A survey of 57 state and U.S. insular area health agencies conducted The 2008-2009 economic crisis had a negative impact on state investments in public health programs. by the Association of State and Territorial Health Officials reported that 76% of health departments made cuts to the FY 2009 budget and 61% reported FY 2010 budgets smaller than FY 2009.²⁹ Nationwide, a 2010 survey of local health departments conducted by the National Association of County and City Health Officials reported that between January 2008 and December 2009 health departments lost 23,000 jobs to layoffs and attrition, roughly 15% of their entire workforce. In 2009, an additional 25,000 local health department employees were subjected to reduced hours or mandatory furloughs.³⁰ These cutbacks have significant implications for public health and preparedness.

Measuring Preparedness

CDC has developed and continues to design additional capability-based performance measures to monitor how well federal investments have improved the nation's ability to prepare for and respond to public health emergencies. This report presents 2008 data (the most current available) on the performance measures listed below. The data were submitted to CDC by state, locality, and U.S. insular area public health departments that received PHEP cooperative agreement funding.

Laboratory testing performance measure. States must be able to detect and determine the extent and scope of potential outbreaks to minimize their impact. The intent of the laboratory testing performance measure is to determine if a laboratory can rapidly receive, test, and report disease-causing bacteria (*Escherichia coli O157:H7* and *Listeria monocytogenes*) within a specified timeframe.

Response performance measure. A state, locality, or U.S. insular area's emergency operations center serves as the central command and control facility for carrying out strategic preparedness, planning, and management of emergency situations, including ensuring continuity of operations. The intent of the response performance measures is to demonstrate capabilities for response activities related to the following areas:

- Notification of emergency operations center staff
- Activation of the emergency operations center
- Assessment of response capabilities through after action reports and improvement plans (AAR/IPs)
- Re-evaluation of response capabilities following the approval and completion of corrective actions identified in a AAR/IPs

Additional performance measures are currently being implemented as well as pilot tested. Performance measures being implemented address the capabilities of crisis and emergency risk communication with the public, incident management, and laboratory services. Performance measures for epidemiological investigation, environmental exposure investigations, surveillance, and additional laboratory services are currently being pilot tested and will be implemented in the near future.

About This Report

This report presents a snapshot of public health preparedness based on available information on state, locality, and U.S. insular area activities receiving Terrorism Preparedness and Emergency Response funding. Data included in the fact sheet section of the report are from CDC (i.e., data related to the PHEP cooperative agreement and data from other CDC programs) as well as from the Association of Public Health Laboratories and the National Association of County and City Health Officials. CDC data were confirmed by both CDC subject matter experts and the PHEP-funded states and localities.

While these data do not represent all preparedness activities occurring in states, localities, and U.S. insular areas, they significantly expand on the information provided in CDC's first state preparedness report.³¹ Both reports provide the most comprehensive picture available on the breadth of state public health preparedness and response efforts. Fact sheets in this report cover activities occurring primarily from October 1, 2007 to September 30, 2008 (FY 2008). In addition, some data from 2009 are included in this report. All data sources and timeframes are described in appendix 7.

CDC has now released three preparedness reports; this is CDC's second report featuring state-by-state data. It includes updates (when available) to data presented in CDC's first state report, Public Health Preparedness: Mobilizing State by State (2008)³² as well as new data on state and local preparedness activities. CDC's 2009 report, Public Health Preparedness: Strengthening CDC's Emergency Response³³ broadly described CDC activities supported by Terrorism Preparedness and Emergency Response funding. CDC, ASPR, and public health partners continue to work together to better define and measure national public health preparedness to ensure that federal funds are invested wisely in ensuring our

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CDC Preparedness Reports

national readiness to prevent, mitigate, and respond to all types of public health emergencies.

This report is organized into two main sections and seven appendices:

Section 1 begins with a description of surveillance and epidemiology activities and their importance to emergency preparedness. Following that are descriptions and national-level data on laboratories and response readiness activities critical to preparedness in states and localities. Section 1 concludes with information on additional preparedness activities funded by CDC that enhance preparedness at state and local levels.

Section 2 presents fact sheets with information on a broad range of preparedness activities in the 50 PHEP-funded states and the 4 localities of Chicago, the District of Columbia, Los Angeles County, and New York City. The fact sheets also include data on the prevalence of several chronic conditions in the state or locality, which should be considered when developing effective response plans, and information on additional CDC-funded projects and activities located in those areas.

Section 2 concludes with a discussion of preparedness activities and challenges in the eight PHEP-funded U.S. insular areas. These areas include the three territories of American Samoa, Guam, and the U.S. Virgin Islands; the two commonwealths of the Northern Mariana Islands and Puerto Rico; and three freely associated states of the Federated States of Micronesia, the Republic of the Marshall Islands, and the Republic of Palau.

Appendices 1-7 provide explanations of the fact sheet data points in the report and their significance, an overview of CDC organizations involved in preparedness activities, funding tables, technical assistance review scores for the Cities Readiness Initiative of CDC's Strategic National Stockpile, and data sources.

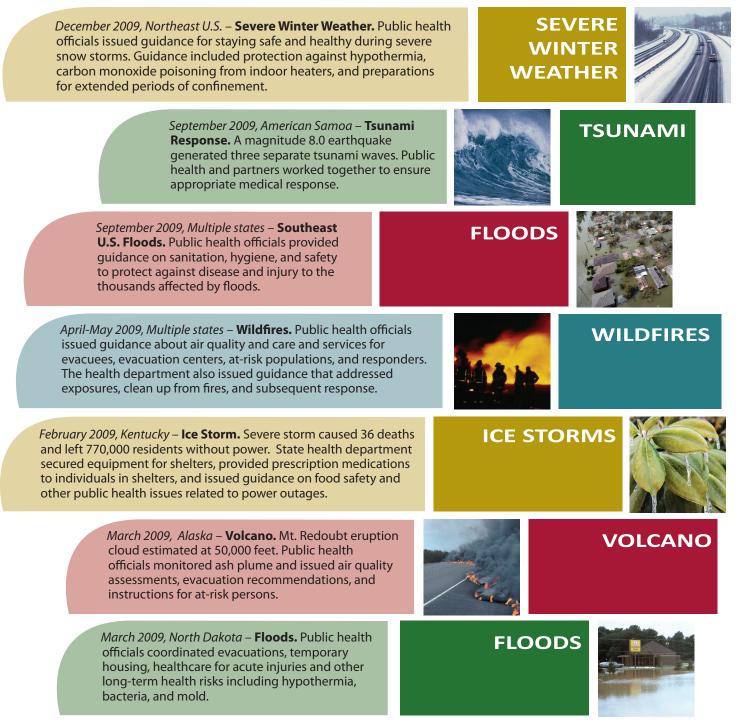
Public Health in Action: Responding to Emergencies Across the Nation

Selected Biological Incidents

SALM	ONELLA	December 2009, Multiple states – Salmonella Typhimurium outbreak linked to frogs. Public health officials investigated infections and determined source of outbreak.	
ANTHRAX	to anima determin	r 2009, New Hampshire – Anthrax linked I l hides. State health departments led that a case of gastrointestinal anthrax d to hides used in drum making and a log circle.	
	IPS	August 2009-Spring 2010, ³⁴ New Jersey and New York – Mumps outbreak. Investigations and testing led to identification of thousands of cases, most in religious communities.	
E. COLI June-July 2009, Multiple states – E.coli O157:H7 outbreaks linked to raw prepackaged cookie dough and to beef. Public health officials and federal agencies investigated outbreaks and identified associations with food sources.			
H1N1	11N1 Spring 2009, Multiple states - 2009 H1N1 Influenza Pandemic. In April 2009, states began to implement their pandemic plans. Activities included disease monitoring, ongoing communication updates, appropriate use of mitigation measures, implementation of H1N1 vaccination campaigns, and the coordination of response efforts with partners.		
SALMONELLA	from Nebr	ary 2009, Nebraska – Salmonella Saintpaul reak linked to alfalfa sprouts. 235 persons 14 states were infected; initial investigation by aska health department led to investigations in Iditional states.	
SALMO		January 2009, Multiple states – Salmonella Typhimurium outbreak linked to peanut butter. Public health epidemiologists, sanitarians, and laboratorians led investigations for product recalls that stopped the spread of outbreaks.	

While state and local agencies devoted a significant amount of their time, energy, and resources to respond to the 2009 H1N1 influenza pandemic, many other events also required their attention and expertise. Support from CDC's Public Health Emergency Preparedness cooperative agreement helped state and local public health departments build and strengthen their abilities to respond effectively. Below are examples of biological incidents and natural disasters – including H1N1 – to which state and local health departments responded.

Selected Natural Disasters



Note: Information on pages 14-15 is adapted from a fact sheet from the Association of State and Territorial Health Officials.³⁵

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