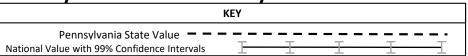
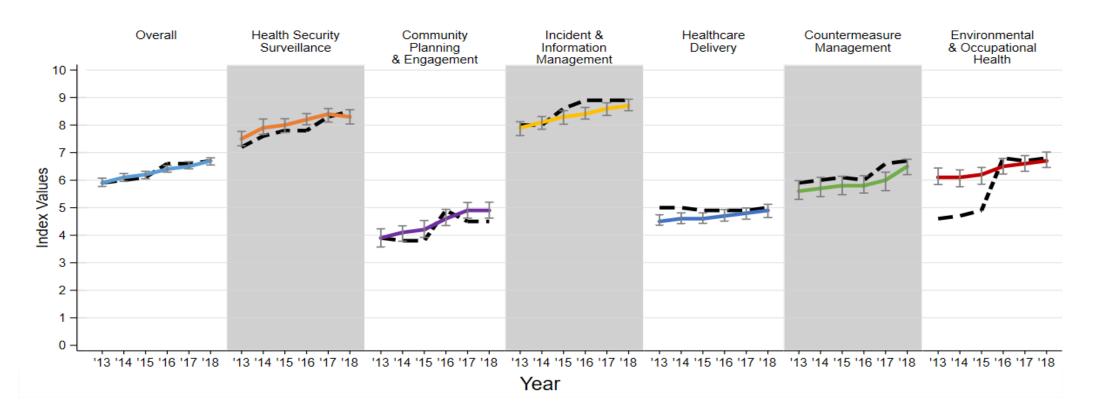


# **Pennsylvania Health Security Profile**

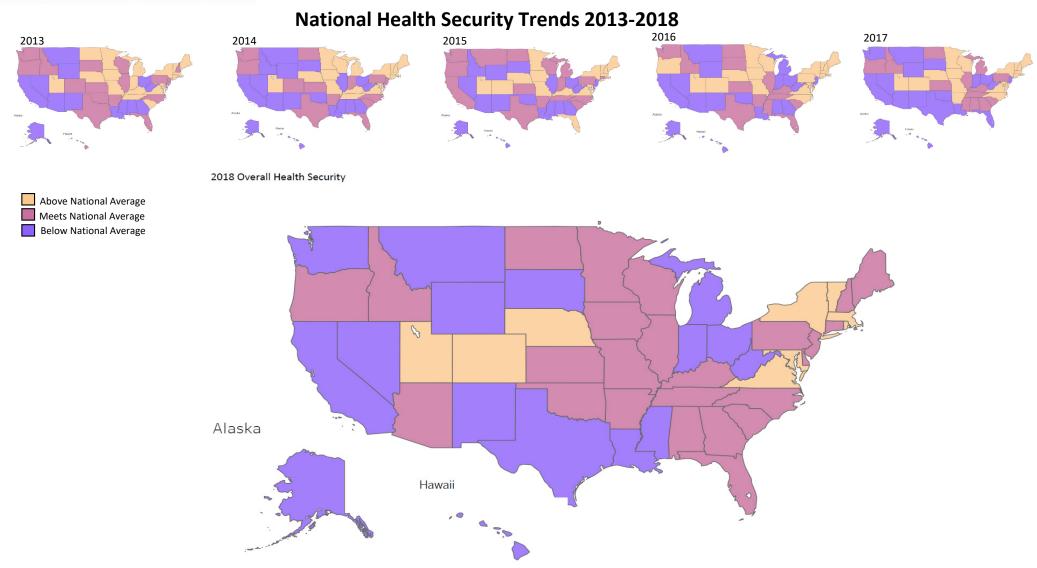
The National Health Security Preparedness Index tracks state and national progress in preparing for disasters, disease outbreaks, and other emergencies that pose risks to health and well-being. The Index measures changes in national and state health security capabilities over time, across a broad array of domains and sectors. The 2019 release of the Index is based on 129 measures organized into the six domains and 19 subdomains listed on page 3. The 2019 release includes annual results for six years (2013-2018) and a comparison of Index values to hazards faced (page 4). Pages 5 to 10 display data for all measures included in the Index and the chart below shows health security trends from 2013-2018 overall, and across all domains.

## Pennsylvania Health Security Trends 2013-2018











## **Pennsylvania Domain and Subdomain Summary**

Pennsylvania's overall health security level reached 6.7 out of 10 in 2018, a 13.6% increase from 2013. The overall health security level in Pennsylvania was in line with the national average health security level of 6.7 in 2018.

MEASURE         Value         since 2017         since 2017           OVERALL INDEX VALUE*         6.7         1.5%         13.6%           DOMAIN 1: HEALTH SECURITY SURVEILLANCE         8.5         2.4%         18.1%           Subdomain 1.1: Health Surveillance & Epidemiological Investigation         6.8         6.3%         25.9%           Subdomain 1.2: Biological Monitoring & Laboratory Testing         9.2         -1.1%         26.0%           DOMAIN 2: COMMUNITY PLANNING & ENGAGEMENT COORDINATION         4.5         0.0%         15.4%           Subdomain 2.1: Cross-Sector / Community Collaboration         5.3         3.9%         15.2%           Subdomain 2.2: Children & Other At-Risk Populations         3.4         0.0%         0.0%           Subdomain 2.3: Management of Volunteers during Emergencies         2.4         -11.1%         50.0%           Subdomain 2.4: Social Capital & Cohesion         4.9         0.0%         32.4%           DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT         8.9         0.0%         11.2%           Subdomain 3.1: Incident Management & Multi-Agency Coordination         7.0         2.9%         2.9%           Subdomain 4.1: Prehospital Care         4.0         -13.0%         -14.9%           Subdomain 4.2: Hospital and Physician Services         6.1         3.	average health security level of 6.7 in 2018.		•	T
OVERALL INDEX VALUE*         6.7         1.5%         13.6%           DOMAIN 1: HEALTH SECURITY SURVEILLANCE         8.5         2.4%         18.1%           Subdomain 1.1: Health Surveillance & Epidemiological Investigation         6.8         6.3%         25.9%           Subdomain 1.2: Biological Monitoring & Laboratory Testing         9.2         -1.1%         26.0%           DOMAIN 2: COMMUNITY PLANNING & ENGAGEMENT COORDINATION         4.5         0.0%         15.4%           Subdomain 2.1: Cross-Sector / Community Collaboration         5.3         3.9%         15.2%           Subdomain 2.2: Children & Other At-Risk Populations         3.4         0.0%         0.0%           Subdomain 2.3: Management of Volunteers during Emergencies         2.4         -11.1%         50.0%           Subdomain 3.1: Incident Management & Multi-Agency Coordination         4.9         0.0%         32.4%           DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT         8.9         0.0%         11.2%           Subdomain 3.1: Incident Management & Multi-Agency Coordination         7.0         2.9%         2.9%           Subdomain 4.1: Prehospital Care         8.6         1.2%         120.5%           DOMAIN 9: HEALTHCARE DELIVERY         5.0         2.0%         0.0%           Subdomain 4.2: Hospital and Physician Services	MEACHDE		_	% Change
DOMAIN 1: HEALTH SECURITY SURVEILLANCE Subdomain 1.1: Health Surveillance & Epidemiological Investigation Subdomain 1.2: Biological Monitoring & Laboratory Testing 9.2 -1.1% 26.0% DOMAIN 2: COMMUNITY PLANNING & ENGAGEMENT COORDINATION Subdomain 2.1: Cross-Sector / Community Collaboration Subdomain 2.2: Children & Other At-Risk Populations Subdomain 2.3: Management of Volunteers during Emergencies Subdomain 2.4: Social Capital & Cohesion DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT Subdomain 3.1: Incident Management & Multi-Agency Coordination Subdomain 3.2: Information Management Subdomain 3.2: Information Management Subdomain 3.2: Information Management Subdomain 4.1: Prehospital Care Subdomain 4.1: Prehospital Care Subdomain 4.2: Hospital and Physician Services Subdomain 4.3: Long-Term Care Subdomain 4.4: Mental & Behavioral Healthcare Subdomain 4.5: Home Care DOMAIN 5. COUNTERMEASURE MANAGEMENT Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing Subdomain 5.2: Countermeasure Utilization & Effectiveness DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH Subdomain 6.1: Food & Water Security Subdomain 6.2: Environmental Monitoring Subdomain 6.3: Physical Environment and Infrastructure  5.3 Subdomain 6.3: Physical Environment and Infrastructure 5.3 Subdomain 6.3: Physical Environment and Infrastructure	111-111-111-111-111-111-111-111-111-111-111-111-111-111-11-11-111-1			
Subdomain 1.1: Health Surveillance & Epidemiological Investigation  Subdomain 1.2: Biological Monitoring & Laboratory Testing  DOMAIN 2: COMMUNITY PLANNING & ENGAGEMENT COORDINATION  Subdomain 2.1: Cross-Sector / Community Collaboration  Subdomain 2.2: Children & Other At-Risk Populations  Subdomain 2.3: Management of Volunteers during Emergencies  Subdomain 2.4: Social Capital & Cohesion  DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT  Subdomain 3.1: Incident Management & Multi-Agency Coordination  Subdomain 3.2: Information Management  Subdomain 3.2: Information Management  Subdomain 4.1: Prehospital Care  Subdomain 4.2: Hospital and Physician Services  Subdomain 4.3: Long-Term Care  Subdomain 4.5: Home Care  DOMAIN 5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT  Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing  Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.2: Environment and Infrastructure  5.3  Subdomain 6.3: Physical Environment and Infrastructure				
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DOMAIN 2: COMMUNITY PLANNING & ENGAGEMENT COORDINATION Subdomain 2.1: Cross-Sector / Community Collaboration Subdomain 2.2: Children & Other At-Risk Populations Subdomain 2.3: Management of Volunteers during Emergencies Subdomain 2.4: Social Capital & Cohesion DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT Subdomain 3.1: Incident Management & Multi-Agency Coordination Subdomain 3.2: Information Management Subdomain 3.2: Information Management Subdomain 3.2: Information Management Subdomain 4: Prehospital Care Subdomain 4.1: Prehospital Care Subdomain 4.2: Hospital and Physician Services Subdomain 4.3: Long-Term Care Subdomain 4.3: Long-Term Care Subdomain 4.4: Mental & Behavioral Healthcare Subdomain 4.5: Home Care DOMAIN 5: COUNTERMEASURE MANAGEMENT Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing Subdomain 5.2: Countermeasure Utilization & Effectiveness DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH Subdomain 6.1: Food & Water Security Subdomain 6.2: Environmental Monitoring Subdomain 6.3: Physical Environment and Infrastructure				
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Subdomain 2.2: Children & Other At-Risk Populations Subdomain 2.3: Management of Volunteers during Emergencies Subdomain 2.4: Social Capital & Cohesion  DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT Subdomain 3.1: Incident Management & Multi-Agency Coordination Subdomain 3.2: Information Management Subdomain 3.2: Information Management Subdomain 3.2: Information Management Subdomain 3.2: Information Management Subdomain 4.1: Prehospital Care Subdomain 4.1: Prehospital Care Subdomain 4.2: Hospital and Physician Services Subdomain 4.3: Long-Term Care Subdomain 4.4: Mental & Behavioral Healthcare Subdomain 4.5: Home Care DOMAIN 5: COUNTERMEASURE MANAGEMENT Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing Subdomain 5.2: Countermeasure Utilization & Effectiveness DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH Subdomain 6.1: Food & Water Security Subdomain 6.2: Environmental Monitoring Subdomain 6.3: Physical Environment and Infrastructure				
Subdomain 2.3: Management of Volunteers during Emergencies  Subdomain 2.4: Social Capital & Cohesion  DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT  Subdomain 3.1: Incident Management & Multi-Agency Coordination  Subdomain 3.2: Information Management  Subdomain 3.2: Information Management  Management  DOMAIN 4: HEALTHCARE DELIVERY  Subdomain 4.1: Prehospital Care  Subdomain 4.2: Hospital and Physician Services  Subdomain 4.3: Long-Term Care  Subdomain 4.4: Mental & Behavioral Healthcare  Subdomain 4.5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT  Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing  Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  5.3  3.9%  10.4%	· · · · · · · · · · · · · · · · · · ·	5.3	3.9%	15.2%
Subdomain 2.4: Social Capital & Cohesion       4.9       0.0%       32.4%         DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT       8.9       0.0%       11.2%         Subdomain 3.1: Incident Management & Multi-Agency Coordination       7.0       2.9%       2.9%         Subdomain 3.2: Information Management       8.6       1.2%       120.5%         DOMAIN 4: HEALTHCARE DELIVERY       5.0       2.0%       0.0%         Subdomain 4.1: Prehospital Care       4.0       -13.0%       -14.9%         Subdomain 4.2: Hospital and Physician Services       6.1       3.4%       13.0%         Subdomain 4.3: Long-Term Care       5.5       27.9%       3.8%         Subdomain 4.4: Mental & Behavioral Healthcare       3.6       16.1%       -10.0%         Subdomain 4.5: Home Care       7.2       5.9%       18.0%         DOMAIN 5: COUNTERMEASURE MANAGEMENT       6.7       1.5%       13.6%         Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing       6.7       21.8%       31.4%         Subdomain 6.2: Countermeasure Utilization & Effectiveness       5.1       -26.1%       -5.6%         DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH       6.8       1.5%       47.8%         Subdomain 6.2: Environmental Monitoring       6.8       -1.4%	Subdomain 2.2: Children & Other At-Risk Populations	3.4	0.0%	0.0%
DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT         8.9         0.0%         11.2%           Subdomain 3.1: Incident Management & Multi-Agency Coordination         7.0         2.9%         2.9%           Subdomain 3.2: Information Management         8.6         1.2%         120.5%           DOMAIN 4: HEALTHCARE DELIVERY         5.0         2.0%         0.0%           Subdomain 4.1: Prehospital Care         4.0         -13.0%         -14.9%           Subdomain 4.2: Hospital and Physician Services         6.1         3.4%         13.0%           Subdomain 4.3: Long-Term Care         5.5         27.9%         3.8%           Subdomain 4.4: Mental & Behavioral Healthcare         3.6         16.1%         -10.0%           Subdomain 4.5: Home Care         7.2         5.9%         18.0%           DOMAIN 5: COUNTERMEASURE MANAGEMENT         6.7         1.5%         13.6%           Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing         6.7         21.8%         31.4%           Subdomain 5.2: Countermeasure Utilization & Effectiveness         5.1         -26.1%         -5.6%           DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH         6.8         1.5%         47.8%           Subdomain 6.2: Environmental Monitoring         6.8         -1.4%         277.8%	Subdomain 2.3: Management of Volunteers during Emergencies	2.4	-11.1%	50.0%
Subdomain 3.1: Incident Management & Multi-Agency Coordination  7.0 2.9% Subdomain 3.2: Information Management  8.6 1.2% 120.5%  DOMAIN 4: HEALTHCARE DELIVERY  5.0 2.0% 0.0% Subdomain 4.1: Prehospital Care  8.6 1.2% 120.5%  Subdomain 4.2: Hospital and Physician Services  8.6 1.3.4% 13.0%  Subdomain 4.2: Hospital and Physician Services  8.6 1.2% 1.4%  Subdomain 4.3: Long-Term Care  8.6 1.2% 1.5% 13.0%  Subdomain 4.3: Long-Term Care  8.6 1.2% 1.5% 13.0%  Subdomain 4.5: Home Care  7.2 5.9% 18.0%  DOMAIN 5: COUNTERMEASURE MANAGEMENT  Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing  Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  5.3 3.9% 10.4%	Subdomain 2.4: Social Capital & Cohesion	4.9	0.0%	32.4%
Subdomain 3.2: Information Management       8.6       1.2%       120.5%         DOMAIN 4: HEALTHCARE DELIVERY       5.0       2.0%       0.0%         Subdomain 4.1: Prehospital Care       4.0       -13.0%       -14.9%         Subdomain 4.2: Hospital and Physician Services       6.1       3.4%       13.0%         Subdomain 4.3: Long-Term Care       5.5       27.9%       3.8%         Subdomain 4.4: Mental & Behavioral Healthcare       3.6       16.1%       -10.0%         Subdomain 4.5: Home Care       7.2       5.9%       18.0%         DOMAIN 5: COUNTERMEASURE MANAGEMENT       6.7       1.5%       13.6%         Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing       6.7       21.8%       31.4%         Subdomain 5.2: Countermeasure Utilization & Effectiveness       5.1       -26.1%       -5.6%         DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH       6.8       1.5%       47.8%         Subdomain 6.1: Food & Water Security       8.7       2.4%       33.8%         Subdomain 6.2: Environmental Monitoring       6.8       -1.4%       277.8%         Subdomain 6.3: Physical Environment and Infrastructure       5.3       3.9%       10.4%	DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT	8.9	0.0%	11.2%
DOMAIN 4: HEALTHCARE DELIVERY Subdomain 4.1: Prehospital Care Subdomain 4.2: Hospital and Physician Services Subdomain 4.3: Long-Term Care Subdomain 4.4: Mental & Behavioral Healthcare Subdomain 4.5: Home Care Subdomain 4.5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing Subdomain 5.2: Countermeasure Utilization & Effectiveness DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH Subdomain 6.1: Food & Water Security Subdomain 6.2: Environmental Monitoring Subdomain 6.3: Physical Environment and Infrastructure  5.0  2.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	Subdomain 3.1: Incident Management & Multi-Agency Coordination	7.0	2.9%	2.9%
Subdomain 4.1: Prehospital Care Subdomain 4.2: Hospital and Physician Services Subdomain 4.3: Long-Term Care Subdomain 4.3: Long-Term Care Subdomain 4.4: Mental & Behavioral Healthcare Subdomain 4.5: Home Care Subdomain 4.5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH Subdomain 6.1: Food & Water Security Subdomain 6.2: Environmental Monitoring Subdomain 6.3: Physical Environment and Infrastructure  4.0 -13.0% -14.9%  5.5 -14.9%  13.0% -10.0%	Subdomain 3.2: Information Management	8.6	1.2%	120.5%
Subdomain 4.2: Hospital and Physician Services Subdomain 4.3: Long-Term Care Subdomain 4.4: Mental & Behavioral Healthcare Subdomain 4.5: Home Care Subdomain 4.5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH Subdomain 6.1: Food & Water Security Subdomain 6.2: Environmental Monitoring Subdomain 6.3: Physical Environment and Infrastructure  6.1  3.4% 13.0% 13.0% 10.0% 15.5  27.9% 3.8% 18.0% 18.0% 19.0%	DOMAIN 4: HEALTHCARE DELIVERY	5.0	2.0%	0.0%
Subdomain 4.3: Long-Term Care  Subdomain 4.4: Mental & Behavioral Healthcare  Subdomain 4.5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT  Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing  Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  5.5  27.9%  3.8%  18.0%  1.5%  1	Subdomain 4.1: Prehospital Care	4.0	-13.0%	-14.9%
Subdomain 4.4: Mental & Behavioral Healthcare  Subdomain 4.5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT  Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing  Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  3.6  16.1%  -10.0%  18.0%  13.6%	Subdomain 4.2: Hospital and Physician Services	6.1	3.4%	13.0%
Subdomain 4.5: Home Care  DOMAIN 5: COUNTERMEASURE MANAGEMENT  Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing  Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  7.2  5.9%  18.0%  13.6%  1.5%  1.5%  1.5%  47.8%  31.4%  24.8%  33.8%  3.9%  10.4%	Subdomain 4.3: Long-Term Care	5.5	27.9%	3.8%
DOMAIN 5: COUNTERMEASURE MANAGEMENT Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH Subdomain 6.1: Food & Water Security Subdomain 6.2: Environmental Monitoring Subdomain 6.3: Physical Environment and Infrastructure  6.7  1.5% 13.6% 51.4% 31.4% 31.4% 47.8% 47.8% 5.8  47.8% 5.9  5.1  5.2  5.3  5.1  5.6% 5.6% 5.6% 5.6% 5.7  5.6% 5.7  5.8  5.9  5.9  5.9  5.9  5.9  5.9  5.9	Subdomain 4.4: Mental & Behavioral Healthcare	3.6	16.1%	-10.0%
Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing  Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  31.4%  31.4%  47.8%  47.8%  47.8%  47.8%  47.8%  48.7  49.8%  49.8%  40.8%	Subdomain 4.5: Home Care	7.2	5.9%	18.0%
Subdomain 5.2: Countermeasure Utilization & Effectiveness  DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  5.1 -26.1% -5.6%  47.8%  47.8%  5.2.4% 33.8%  277.8%  5.3 3.9% 10.4%	DOMAIN 5: COUNTERMEASURE MANAGEMENT	6.7	1.5%	13.6%
DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH  Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  5.3  1.5%  47.8%  47.8%  3.8%  1.5%  47.8%  3.8%  1.4%  277.8%	Subdomain 5.1: Medical Materiel Management, Distribution, & Dispensing	6.7	21.8%	31.4%
Subdomain 6.1: Food & Water Security  Subdomain 6.2: Environmental Monitoring  Subdomain 6.3: Physical Environment and Infrastructure  8.7  2.4%  33.8%  4.7  2.77.8%  3.9%  10.4%	Subdomain 5.2: Countermeasure Utilization & Effectiveness	5.1	-26.1%	-5.6%
Subdomain 6.2: Environmental Monitoring 6.8 -1.4% 277.8% Subdomain 6.3: Physical Environment and Infrastructure 5.3 3.9% 10.4%	DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH	6.8	1.5%	47.8%
Subdomain 6.3: Physical Environment and Infrastructure 5.3 3.9% 10.4%	Subdomain 6.1: Food & Water Security	8.7	2.4%	33.8%
·	Subdomain 6.2: Environmental Monitoring	6.8	-1.4%	277.8%
Subdomain 6.4: Workforce Resiliency 53.8%	Subdomain 6.3: Physical Environment and Infrastructure	5.3	3.9%	10.4%
	Subdomain 6.4: Workforce Resiliency	4.0	5.3%	53.8%

### Strengths:

- Pennsylvania's largest improvement occurred in the Environmental & Occupational Health domain, which increased by 47.8% between
- The state's highest health security level in 2018 occurred in the domain of Incident & Information Management with a value of 8.9.
- Health security levels in 2018 significantly exceeded the national average in none of the six domains.

### **Challenges:**

- Health security levels in 2018 declined in no domains.
- The state's lowest health security level in 2018 occurred in Community Planning & Engagement with a value of 4.5.
- Health security levels in 2018 were significantly below the national average in one domain: Community Planning & Engagement.

Support for the National Health Security Preparedness Index is provided by the Robert Wood Johnson Foundation. The views expressed here do not necessarily reflect the views of the Foundation. The Index Program Office is based at the University of Kentucky. For more information, contact HealthSecurity@uky.edu.

Above National Average
Meets National Average
Below National Average

<sup>\*</sup> For an overview of the Index, methodology, and measure details, go to https://goo.gl/gSPq8m Acknowledgements

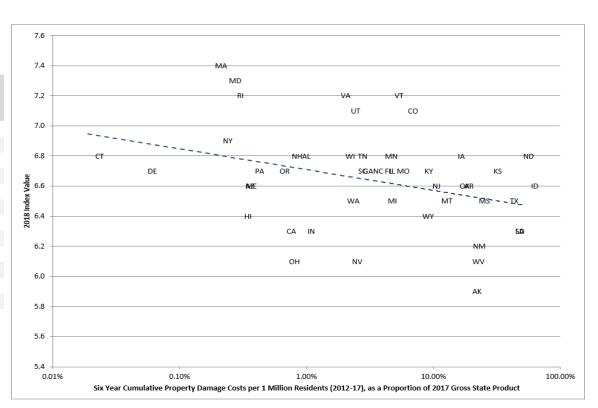


## Pennsylvania Health Security Hazards 2012-2017

Each state faces unique health security hazards. The table below shows health security hazards that Pennsylvania experienced between 2012 and 2017 and the aggregated effects of those hazards in terms of event length, injuries, deaths, and economic damages. During those same years, health security hazards in the United States resulted in 12,249 injuries, 2,852 deaths, and 191 billion dollars in property and crop damage. Our analysis comparing Index scores to the cost of actual hazards suggests that states with higher levels of health security incur less economic damage from the hazards they face (see chart, below).

### Pennsylvania Health Security Hazards 2012-2017

	Duration			Droporty	
Hazard Type	of Events	Injuries	Deaths	Property Damage (\$ in 1000s)	Crop Damage (\$ in 1000s)
	(Days)			,,	
Avalanche	1	0	0	13	-
Flooding	3	0	3	87,266	472
Hail	1	0	0	594	-
Heat	6	11	28	11	-
High Wind	3	24	13	43,824	37
Landslide	1	0	1	17	-
Lightning	1	22	4	3,470	-
Severe Storm/Thunder Storm	1	15	3	20,249	1
Severe Winter Weather	4	12	5	39,531	10
Tornado	1	24	0	27,057	3
Wildfire	2	1	0	15	-
Total	24	109	56	222,047	523



**Note:** Numbers reflect author's analysis of data from the Spatial Hazard Events and Losses Database for calendar years 2012-2017. Data on event duration do not include response and recovery time periods that extend beyond the active event period. Hazardous events are limited to those recorded in federal registries for weather, climate, and geological events and for Presidential Disaster Declarations. Disease outbreaks, industrial and infrastructure events, and other non-natural events are included only in cases of Presidential Disaster Declaration. Monetary data are adjusted to 2017 dollars. For more information, see: "Spatial Hazard Events and Losses Database for the United States, Version 17.0." at <a href="https://cemhs.asu.edu/sheldus/">https://cemhs.asu.edu/sheldus/</a>



Above National Average

Meets National Average

Below National Average

	2013	2014	2015	2016	2017	2018
OVERALL INDEX VALUE (0-10)	6.1	6.1	6.3	6.6	6.7	6.8
DOMAIN 1: HEALTH SECURITY SURVEILLANCE (0-10)	7.3	7.7	7.9	7.9	8.4	8.6
SUBDOMAIN 1.1: HEALTH SURVEILLANCE & EPIDEMIOLOGICAL INVESTIGATION (0-10)	5.6	5.8	6.8	5.3	6.7	7.1
M18 – Number of Epidemiologists per 100,000 population in the state, by quintile (1=Lowest Quintile, 5=Highest Quintile)(Min=1.0,	2.0	2.0	1.0	1.0	1.0	1.0
M22 – State health department has an electronic syndromic surveillance system that can report and exchange information	Yes	Yes	Yes	Yes	Yes	Yes
M217 – State public health laboratory has implemented the laboratory information management system (LIMS) to receive and report						
laboratory information electronically	No	No	No	No	No	No
M220 – State has legal requirement for nongovernmental laboratories to send specimens associated with reportable foodborne diseases to		V	.,	V	V	
the state public health laboratory	Yes	Yes	Yes	Yes	Yes	Yes
M23 – Percent of foodborne illness outbreaks reported to CDC by state and local public health departments for which a causative infectious	E 4 E 0 /	72.00/	F7.40/	FO 00/	42.00/	72.70/
agent is confirmed (Min=0.0%, Max=100.0%)	54.5%	72.0%	57.1%	50.0%	42.9%	72.7%
M290 – State has a public health veterinarian	Yes	Yes	Yes	Yes	Yes	Yes
M265 – State uses an Electronic Death Registration System	No	No	Yes	No	Yes	Yes
SUBDOMAIN 1.2: BIOLOGICAL MONITORING & LABORATORY TESTING INDEX VALUE (0-10)	7.3	8.1	7.8	9.2	9.3	9.2
M1314 – State public health chemical OR radiological terrorism/threat laboratory is accredited or certified	No	No	No	Yes	Yes	Yes
M208 – State public health laboratory has a permit for the importation and transportation of materials, organisms, and vectors controlled	Voc	Vos	Voc	Voc	Voc	Vas
by USDA Animal and Plant Health Inspection Service	Yes	Yes	Yes	Yes	Yes	Yes
M8 – State public health laboratory has a plan for a 6-8 week surge in testing capacity to respond to an emergency	Yes	Yes	Yes	Yes	Yes	Yes
M9 – State public health laboratory has a continuity of operations plan consistent with national incident management guidelines	Yes	Yes	Yes	Yes	Yes	Yes
M11 – State public health laboratory has a plan to receive specimens from sentinel clinical laboratories during nonbusiness hours	No	Yes	Yes	Yes	Yes	Yes
M12 – State public health laboratory assures the timely transportation of samples to appropriate reference laboratories at all times	Yes	Yes	Yes	Yes	Yes	Yes
M211 – Percent of 10 tests for infectious diseases that the state public health laboratory provides or assures, including but not limited to	90.0%	100.0%	100.0%	100.0%	100.0%	100.0%
measles, mumps, and hepatitis C (Min=10.0%, Max=100.0%)	90.0%	100.0%	100.0%	100.0%	100.0%	100.0%
M216 – Percent of 15 tests for infectious diseases that the state public health laboratory provides or assures including but not limited to	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
dengue fever, legionella, malaria, and rabies (Min=10.0%, Max=100.0%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
M2 – Percent of Laboratory Response Network biological (LRN-B) proficiency tests successfully passed by laboratories in the state	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(Min=0.0%, Max=100.0%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
M3 – Percent of e. coli-positive tests submitted by state and local public health laboratories to the CDC PulseNet national database within	93.0%	100.0%	91.0%	99.0%	96.0%	97.0%
four working days of receiving samples from clinical laboratories (Min=0.0%, Max=100.0%)	93.0%	100.0%	91.0%	99.0%	90.0%	97.0%
M5 – Percent of chemical agents correctly identified and quantified during unannounced proficiency testing during the state's Laboratory	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Response Network (LRN) Emergency Response Pop Proficiency Test (PopPT) Exercise (Min=50.0%, Max=100.0%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



Above National Average

Meets National Average

Below National Average

	2013	2014	2015	2016	2017	2018
M7 – Number of additional chemical agent detection methods—beyond the core methods—demonstrated by Laboratory Response	2.0	2.0	1.0	2.0	2.0	2.0
Network chemical (LRN-C) Level 1 or 2 laboratories in the state (Min=0, Max=4)	2.0	2.0	1.0	2.0	2.0	2.0
M286 – Number of chemical threat and multi-hazards preparedness exercises the state public health laboratory conducts annually	2.0	1.0	1.0	1.0	2.0	0.0
(Min=0.0, Max=32.0)	2.0	1.0	1.0	1.0	2.0	0.0
M287 – Percent of listeria-positive tests submitted by state and local public health laboratories to the CDC PulseNet national database		91.0%	56.0%	02.00/	100.0%	100.00/
within four working days of receiving samples from clinical laboratories (Min=0.0%, Max=100.0%)		91.0%	56.0%	93.0%	100.0%	100.0%
M288 – Number of core chemical agent detection methods demonstrated by Level 1 or 2 LRN-C laboratories in the state (Min=0, Max=9)	9.0	9.0	9.0	9.0	9.0	9.0
M911 – State public health laboratory provides or assures testing for soil	No	No	No	Yes	Yes	Yes
M902 – State has a high-capability laboratory to detect chemical threats (Level 1 or 2 LRN-C laboratory)	Yes	Yes	Yes	Yes	Yes	Yes
DOMAIN 2: COMMUNITY PLANNING & ENGAGEMENT COORDINATION INDEX VALUE (0-10)	4.8	4.7	4.7	5.2	4.9	4.9
SUBDOMAIN 2.1: CROSS-SECTOR / COMMUNITY COLLABORATION INDEX VALUE (0-10)	4.6	4.9	4.8	6.6	5.1	5.3
M87 – State health department is accredited by the Public Health Accreditation Board	No	No	No	Yes	No	No
M501 – Percent of the state's population served by a comprehensive public health system, as determined through the National	30.1%	44.9%	44.9%	58.5%	58.5%	66.8%
Longitudinal Survey of Public Health Systems (Min=10.0%, Max=90.0%)	50.1%	44.5%	44.5%	36.370	36.3%	00.6%
M9031 – Percent of hospitals in the state that participate in health care preparedness coalitions supported by ASPR and CDC (Min=0.0%,	88.3%	87.5%	87.1%	85.3%	85.7%	85.7%
Max=100.0%)	00.570	67.5%	07.170	65.5%	65.770	65.7%
M9032 – Percent of emergency medical service agencies in the state that participate in health care preparedness coalitions supported by	7.2%	7.2%	1.6%	1.7%	2.0%	2.0%
ASPR and CDC (Min=0.0%, Max=100.0%)	7.270	7.270	1.0%	1.770	2.0%	2.0%
M9033 – Percent of emergency management agencies in the state that participate in health care preparedness coalitions supported by	45.6%	45.6%	45.6%	45.6%	45.6%	45.6%
ASPR and CDC (Min=0.0%, Max=100.0%)	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%
M9034 - Percent of local health departments in the state that participate in health care preparedness coalitions supported by ASPR and	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CDC (Min=0.0%, Max=100.0%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SUBDOMAIN 2.2: CHILDREN & OTHER AT-RISK POPULATIONS INDEX VALUE (0-10)	6.7	6.6	6.7	4.6	5.0	5.0
M163 – Number of pediatricians per 100,000 population under 18 years old in the state (Min=23.6, Max=334.6)	74.7	75.3	77.4	77.4	77.9	78.1
M164 – Number of obstetricians and gynecologists per 100,000 female population in the state (Min=12.14, Max=57.4)	22.0	22.0	23.2	22.7	22.7	22.7
M170 – Percent of state children (0-18 years) who reside within 50 miles of a pediatric trauma center, including out-of-state centers	94.7%	93.3%	93.6%	93.6%	96.2%	96.6%
(Min=0.0%, Max=100.0%)	94.7%	95.5%	93.0%	93.0%	90.2%	90.0%
M53B - Percent of youth who did not miss one or more days of school in past month due to concerns about safety (Min=86.9%,	0.0%	0.0%	0.0%	8.2%	6.9%	6.9%
SUBDOMAIN 2.3: MANAGEMENT OF VOLUNTEERS DURING EMERGENCIES INDEX VALUE (0-10)	1.6	1.7	1.7	2.7	2.7	2.4
M266 – Percent of the state's population who live in a county with a Community Emergency Response Team (CERT) (Min=18.1%,	47.4%	47.5%	47.5%	87.1%	87.1%	87.1%
Max=100.0%)	47.470	47.5%	47.5%	07.170	07.170	07.170
M346 – Number of total Medical Reserve Corps members per 100,000 population in the state (Min=1.7, Max=427.5)	39.0	42.2	42.2	42.8	43.7	34.2



Above National Average

Meets National Average

Below National Average

	2013	2014	2015	2016	2017	2018
M176 – Number of Medical Reserve Corps (MRC) members who are physicians per 100,000 population in the state (Min=0.0, Max=32.6)	5.3	5.2	5.2	5.8	5.8	3.4
M179 – Number of Medical Reserve Corps (MRC) members who are nurses or advanced practice nurses per 100,000 population in the state	12.4	12.6	12.6	11.7	11.9	8.2
M186 – Number of Medical Reserve Corps (MRC) members who are other health professionals per 100,000 population in the state	21.3	24.4	24.4	25.3	26.0	22.6
SUBDOMAIN 2.4: SOCIAL CAPITAL & COHESION INDEX VALUE (0-10)	3.7	2.3	2.4	4.4	4.9	4.9
M175 – Percent of voting-eligible population in the state participating in the highest office election (Min=27.8%, Max=76.0%)	59.5%	36.1%	36.1%	63.6%	63.6%	63.6%
M188 – Percent of adults in the state who volunteer in their communities (Min=16.7%, Max=51.1%)	26.6%	27.0%	27.5%	29.6%	34.2%	34.2%
M189 – Number of annual volunteer hours per state resident, 15 years and older (Min=15.9, Max=89.4)	28.5	32.7	33.3	30.9	32.1	32.1
DOMAIN 3: INCIDENT & INFORMATION MANAGEMENT INDEX VALUE (0-10)	8.0	8.0	8.6	8.9	8.9	8.9
SUBDOMAIN 3.1: INCIDENT MANAGEMENT INDEX VALUE (0-10)	6.8	6.7	6.6	6.7	6.8	7.0
M84 – State all hazards emergency management program is accredited by the Emergency Management Accreditation Program (EMAP)	Yes	Yes	Yes	Yes	Yes	Yes
M107 – Percent of local health departments in the state with an emergency preparedness coordinator (Min=25.0%, Max=100.0%)	100.0%	100.0%	100.0%	92.7%	92.7%	92.7%
M701 – Average number of minutes for state health department staff with incident management lead roles to report for immediate	36.0	42.0	45.0	31.0	25.0	17.0
emergency response duty (reverse coded)(Min=2.0, Max=651.0)	30.0	42.0	45.0	31.0	25.0	17.0
M344 – State has adopted the Nurse Licensure Compact (NLC)	No	No	No	No	No	No
SUBDOMAIN 3.2: INFORMATION MANAGEMENT INDEX VALUE (0-10)	3.9	4.2	7.5	9.0	8.5	8.6
M228 – Percent of households in the state with broadband in the home (Min=56.7%, Max=89.1%)	73.5%	72.4%	73.9%	86.5%	80.5%	81.5%
M906 - Percent of hospitals in the state that have demonstrated meaningful use of certified electronic health record technology	91.0%	92.0%	94.0%	99.0%	99.0%	99.0%
(CEHRT)(Min=61.0%, Max=100.0%)	91.0%	92.0%	94.0%	99.0%	99.0%	99.0%
M907 - Percent of office-based medical doctors and doctors of osteopathy in the state that have demonstrated meaningful use of certified	42.00/	E 4 O0/	CO 00/	C0 00/	CO 00/	CO 00/
electronic health record technology (CEHRT)(Min=16.0%, Max=93.0%)	42.0%	54.0%	60.0%	68.0%	68.0%	68.0%
M1001 - State has implemented Enhanced 911 (E911) call centers	No	No	Yes	Yes	Yes	Yes
DOMAIN 4: HEALTHCARE DELIVERY INDEX VALUE (0-10)	5.0	5.0	4.9	4.9	4.9	5.0
SUBDOMAIN 4.1: PREHOSPITAL CARE INDEX VALUE (0-10)	4.7	4.7	4.7	4.6	4.6	4.0
M140 – Number of emergency medical technicians (EMTs) and paramedics per 100,000 population in the state (Min=32.8, Max=224.79)	108.4	105.1	102.2	96.3	92.0	94.2
M331 – Percent of local emergency medical services (EMS) agencies that submit National EMS Information System compliant data to the	71 10/	71 10/	71 10/	71 10/	71 10/	40.00/
state (Min=0.0%, Max=100.0%)	71.1%	71.1%	71.1%	71.1%	71.1%	48.0%
M349 - State has adopted EMS Personnel Licensure Interstate CompAct (REPLICA) legislation	No	No	No	No	No	No
M350U - The average length of time in minutes between EMS notification and arrival at a fatal motor vehicle crash (MVC) in urban areas	C 0	C 0	C 0	C 7	C 7	C 7
(reverse coded)(Min=1.0, Max=12.1)	6.9	6.9	6.9	6.7	6.7	6.7
M350R - The average length of time in minutes between EMS notification and arrival at a fatal motor vehicle crash (MVC) in rural areas	10.7	10.7	10.7	10.7	10.7	10.7
(reverse coded)(Min=5.0, Max=30.0)	10.7	10.7	10.7	10.7	10.7	10.7



Above National Average	Meets National Average	Below National Average
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·	2013	2014	2015	2016	2017	2018
SUBDOMAIN 4.2: HOSPITAL AND PHYSICIAN SERVICES INDEX VALUE (0-10)	5.4	5.4	5.4	5.5	5.9	6.1
M147 – Median time in minutes from hospital emergency department (ED) arrival to ED departure for patients admitted to hospitals in the state (reverse coded)(Min=172.0, Max=496.0)	272.0	271.0	277.0	278.0	280.0	280.0
M148 – Median time in minutes from hospital admission decision to emergency department (ED) departure for patients admitted to hospitals in the state (reverse coded)(Min=39.0, Max=264.0)	97.0	101.0	102.0	101.0	106.0	112.0
M152 – Percent of the state's population who live within 50 miles of a trauma center, including out-of-state centers (Min=1.0%,						
Max=100.0%)	99.1%	97.7%	97.7%	99.2%	99.3%	97.5%
M160 – Number of physicians and surgeons per 100,000 population in the state (Min=125.9, Max=604.9)	349.4	356.6	334.7	345.7	352.5	365.9
M167 – Number of active registered nurse (RN) and licensed practical nurse (LPN) licenses per 100,000 population in the state (Min=0,	2150.7	2130.3	2162.0	2093.6	2147.3	2132.5
Max=4253.76)	00.00/	00.00/	00.00/	00.00/	00.00/	00.00/
M168 – Percent of the state's population living within 100 miles of a burn center, including out-of-state centers (Min=0.0%, Max=100.0%)	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%
M296 – Percent of hospitals in the state providing geriatric services (Min=17.9%, Max=71.5%)	53.3%	51.4%	47.9%	50.0%	52.5%	62.7%
M297 – Percent of hospitals in the state providing palliative care programs (Min=10.3%, Max=57.4%)	30.8%	32.5%	33.5%	34.5%	39.4%	58.7%
M298 – Number of hospital airborne infection isolation room beds per 100,000 population in the state, including beds within 50 miles from	35.4	37.2	38.0	38.1	38.3	39.4
neighboring states (Min=5.6, Max=244.5)						
M299 – Risk-adjusted 30-day survival rate (percent) among Medicare beneficiaries hospitalized in the state for heart attack, heart failure, or pneumonia (Min=11.9%, Max=15.7%)	12.6%	12.9%	12.9%	12.9%	14.1%	13.7%
M300 – Percent of hospitals in the state with a top quality ranking (Grade A) on the Hospital Safety Score (Min=0.0%, Max=83.3%)	20.0%	18.1%	23.7%	25.0%	30.2%	30.2%
SUBDOMAIN 4.3: LONG-TERM CARE INDEX VALUE (0-10)	5.3	5.3	4.9	5.3	4.3	5.5
M308 – Average number of nurse (RN) staffing hours in nursing homes in the state—hours per resident per day (Min=0.5, Max=2.1)	0.9	0.9	0.9	0.9	1.0	0.8
M309 – Average number of nursing assistant (CNA) staffing hours in nursing homes in the state—hours per resident per day (Min=2.1,	2.3	2.3	2.3	2.3	2.3	2.2
Max=4.3)	2.3	2.3	2.3	2.5	2.3	2.2
M307 – Percent of long-stay nursing home residents in the state given the seasonal influenza vaccine (Min=86.2%, Max=98.3%)	0.9%	0.9%	0.9%	1.0%	1.0%	95.8%
M310 – Average number of licensed practical nurse (LPN) staffing hours in nursing homes in the state—hours per resident per day (Min=0.3,	0.0	0.0	0.0	0.0	0.0	0.0
Max=1.2)	0.8	0.8	0.9	0.8	0.9	0.9
M303B - Number of nursing home deficiencies (evacuation plan deficiencies or emergency planning deficiencies) per 100 nursing homes in	Yes	Yes	2.0	Yes	3.0	4.0
the state (1=Highest Quintile and 5=Lowest Quintile)(Min=1.0, Max=5.0)	103	103	2.0	103	3.0	4.0
M23NH - Number of disease outbreaks in nursing homes or assisted living facilities per 1,000 certified nursing home residents in a state (reverse coded)(Min=0.0, Max=16.6)	1.7	1.8	1.3	1.8	1.7	1.6
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Above National Average

Meets National Average

Below National Average

Pennsylvania Measure Deta	ails 2013-2018*
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	2013	2014	2015	2016	2017	2018
SUBDOMAIN 4.4: MENTAL & BEHAVIORAL HEALTHCARE INDEX VALUE (0-10)	4.0	3.9	3.8	3.8	3.1	3.6
M316 – Percent of hospitals in the state providing psychiatric emergency services (Min=6.3%, Max=70.0%)	37.1%	35.0%	31.8%	32.8%	36.9%	50.0%
M317 – Percent of need met for mental health care in health professional shortage areas (HPSA) in the state (Min=5.3%, Max=100.0%)	61.9%	61.9%	61.9%	60.8%	38.7%	35.9%
M800 – Percent of the state's population not living in a HRSA Mental Health Professional Shortage Area (Min=0.0%, Max=100.0%)	15.0%	15.0%	15.0%	15.0%	14.2%	13.2%
SUBDOMAIN 4.5: HOME CARE INDEX VALUE (0-10)	6.1	6.3	6.1	6.1	6.8	7.2
M291 – Percent of home health visits in the state where the home health team determined whether their patient received a flu shot	77.0%	78.0%	76.1%	75.5%	78.4%	80.1%
(Min=60.0%, Max=87.0%)	77.0%	76.0%	70.1%	75.5%	70.470	00.1/0
M292 – Percent of home health visits in the state where the home health team began their patients' care in a timely manner (Min=76.0%,	93.0%	02.00/	02.00/	02.70/	02.00/	04.40/
Max=100.0%)	93.0%	93.0%	92.8%	92.7%	93.6%	94.4%
M293 – Number of home health and personal care aides per 1,000 population in the state aged 65 or older (Min=2.1, Max=14.3)	6.2	6.6	7.0	7.3	7.9	8.3
DOMAIN 5: COUNTERMEASURE MANAGEMENT INDEX VALUE (0-10)	5.9	6.0	6.1	6.0	6.6	6.7
SUBDOMAIN 5.1: MEDICAL MATERIEL MANAGEMENT, DISTRIBUTION, & DISPENSING INDEX VALUE (0-10)	5.1	5.2	4.7	5.0	5.5	6.7
M161 – Number of Pharmacists per 100,000 population in the state (Min=60.1, Max=150.7)	97.2	96.7	97.0	100.3	105.3	106.4
M270 – Percent of hospitals in the state participating in a group purchasing arrangement (Min=0.0%, Max=100.0%)	64.2%	67.5%	54.2%	58.0%	61.9%	88.9%
SUBDOMAIN 5.2: COUNTERMEASURE UTILIZATION & EFFECTIVENESS INDEX VALUE (0-10)	5.4	5.4	6.6	5.8	6.9	5.1
M24 – Percent of children ages 19-35 months in the state receiving recommended routine childhood vaccinations (Min=57.1%,	68.3%	75.5%	78.6%	72.8%	73.7%	70.4%
Max=85.3%)	06.570	75.5%	76.0%	72.070	73.770	70.470
M32 – Percent of seniors age 65 and older in the state receiving a seasonal flu vaccination (Min=49.9%, Max=78.0%)	64.6%	65.4%	71.5%	67.0%	72.3%	56.9%
M33 – Percent of seniors age 65 and older in the state receiving a pneumococcal vaccination (Min=60.5%, Max=79.7%)	71.1%	68.8%	70.9%	71.9%	74.8%	75.1%
M34 – Percent of children aged 6 months to 4 years old in the state receiving a seasonal flu vaccination (Min=43.9%, Max=92.7%)	83.5%	71.2%	74.7%	73.1%	74.1%	75.2%
M35 – Percent of adults aged 18 years and older in the state receiving a seasonal flu vaccination (Min=30.8%, Max=58.1%)	41.2%	42.7%	46.9%	45.0%	50.8%	41.1%
DOMAIN 6: ENVIRONMENTAL & OCCUPATIONAL HEALTH INDEX VALUE (0-10)	4.6	4.7	4.8	6.6	6.7	6.6
SUBDOMAIN 6.1: FOOD & WATER SECURITY INDEX VALUE (0-10)	5.1	5.2	5.2	7.3	7.6	7.3
M275_DW – State public health laboratory provides or assures testing for drinking water	No	No	No	Yes	Yes	Yes
M275_PWW – State public health laboratory provides or assures testing for private well water	No	No	No	Yes	Yes	Yes
M275_REC – State public health laboratory provides or assures testing for recreational water	No	No	No	Yes	Yes	Yes
M275_SUR – State public health laboratory provides or assures testing for surface water	No	No	No	Yes	Yes	Yes
M275_WST – State public health laboratory provides or assures testing for waste water	No	No	No	Yes	Yes	Yes
M276 – Percent of 16 tests for different organisms or toxins that the state public health laboratory provides or assures to assist with foodborne disease outbreak investigations, including but not limited to listeria and salmonella (Min=40.0%, Max=99.1%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



## Pennsylvania Measure Details 2013-2018\*

Above National Average	Meets National Average	Below National Average
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	2013	2014	2015	2016	2017	2018
M195 – Percent of population in the state whose community water systems meet all applicable health-based standards (Min=15.4%, Max=98.3%)	8.3%	9.7%	8.5%	8.5%	9.7%	7.5%
M925 – Percent of population in the state whose community water systems meet all applicable non health-based standards (Min=19.2%, Max=85.0%)	49.4%	52.6%	48.7%	47.5%	60.7%	50.2%
M23PC - Number of foodborne illness outbreaks reported to CDC by state and local public health departments for which a causative infectious agent is confirmed (per 1 million population)(reverse coded)(Min=0.0, Max=14.9)	1.7	2.0	1.1	0.5	0.5	0.9
SUBDOMAIN 6.2: ENVIRONMENTAL MONITORING INDEX VALUE (0-10)	1.8	2.2	2.2	6.9	6.9	6.8
M202 – State public health laboratory provides or assures testing for air samples	No	No	No	Yes	Yes	Yes
M257_AIHA – State public health laboratory is certified or accredited by the American Industrial Hygiene Association (AIHA)	No	No	No	No	No	No
M257_EPA – State public health laboratory is certified or accredited by the Environmental Protection Agency (EPA)	No	No	No	No	No	No
M257_NELAC – State public health laboratory is certified or accredited by the National Environmental Laboratory Accreditation Conference (NELAC)	No	No	No	No	No	No
M272 – Percent of 12 tests for different contaminants in environmental samples that the state public health laboratory provides or assures, including but not limited to asbestos, lead, and radon (Min=0.0%, Max=100.0%)	0.0%	20.0%	20.0%	100.0%	100.0%	100.0%
M273 – State public health laboratory provides or assures testing for hazardous waste	No	No	No	Yes	Yes	Yes
M904 – Number of environmental scientists and specialists per 100,000 population in the state (Min=6.6, Max=237.6)	19.8	21.3	22.8	19.7	17.7	17.1
M23A - Number of disease outbreaks in a state due to animal contact per 1 million population (reverse coded)(Min=0.0, Max=5.2)	0.1	0.1	0.1	0.0	0.1	0.3
SUBDOMAIN 6.3: PHYSICAL ENVIRONMENT AND INFRASTRUCTURE INDEX VALUE (0-10)	6.8	6.7	6.6	6.4	6.3	6.2
M922 - Transportation Structural Integrity, percent of bridges that are in good or fair condition (not poor) (Min=2.0%, Max=100.0%)	24.0%	22.6%	21.9%	20.6%	19.4%	18.2%
M923 - Surface Water Control Structural Integrity, percent of High-Hazard Potential Dams that are not in poor or unsatisfactory condition (Min=2.0%, Max=100.0%)	76.3%	76.3%	76.3%	76.3%	76.3%	78.8%
M928 - Housing Mitigation for Flood Hazards, population living in a community participating in the FEMA Community Rating System						
(communities with a CRS of 1 through 9) as a percent of all communities participating in the National Flood Insurance Program (Min=0.0%, Max=100.0%)	30.5%	30.5%	30.5%	30.5%	30.5%	30.4%
M929 - Flood Insurance Coverage, FEMA National Flood Insurance Policies (NFIP) in-force as a percentage of total housing units located in 100- and 500-year floodplains (Min=1.8%, Max=100.0%)	32.6%	30.8%	29.1%	27.5%	25.7%	24.2%
M334 – State has a climate change adaptation plan	Yes	Yes	Yes	Yes	Yes	Yes
SUBDOMAIN 6.4: WORKFORCE RESILIENCY INDEX VALUE (0-10)	2.6	2.8	3.5	3.8	3.8	4.0
M530 – Percent of employed population in the state with some type of paid time off (PTO) benefit (Min=40.8%, Max=70.8%)	52.1%	53.9%	53.1%	53.5%	51.7%	51.3%
M531 – Percent of employed population in the state engaging in some work from home by telecommuting (Min=3.7%, Max=38.0%)	7.2%	6.2%	15.1%	17.8%	17.8%	20.7%

<sup>\*</sup> For an overview of the Index, methodology, and measure details, go to https://goo.gl/gSPq8m

Min and Max values represent minimum and maximum values for all states in all years.



### **About the Index**

The National Health Security Preparedness Index is a program of the Robert Wood Johnson Foundation. The Program Office for the Index is based at the University of Kentucky and staffed through a collaboration between the Center for Public Health Systems and Services Research, College of Public Health, and the Center for Business and Economic Research, Gatton College of Business and Economics. The Program Office is directed by Glen P. Mays, PhD, Professor of Health Systems and Services Research at the University of Kentucky.

#### **Additional Resources**

Report of Key Findings: https://nhspi.org/wp-content/uploads/2019/05/NHSPI 2019 Key Findings.pdf

List of Measures: https://nhspi.org/wp-content/uploads/2019/05/NHSPI 2019 Measures.pdf

Index Methodology: https://nhspi.org/wp-content/uploads/2019/05/NHSPI 2019 Methodology.pdf

Summary of Key Index Changes: https://nhspi.org/wp-content/uploads/2019/05/NHSPI 2019 Key Changes.pdf

Index Data Explorer Tool: https://nhspi.org/wp-content/uploads/2019/05/NHSPI 2019 Data Download.xlsx

Innovator's Guide to Index Use: https://nhspi.org/wp-content/uploads/2017/05/Innovators-Guide 24Apr2018.pdf

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