National Health Security Preparedness Index

Analytic Methodology & Model Design
Work Group Meeting

July 18, 2017

Index Program Management Office
University of Kentucky
Agenda

- Input on potential new measures
- Update on adding new geographic areas
Input on Potential New Measures

- Cybersecurity
  - 911 Centers with cybersecurity plans
  - 911T Capability (texting)

- Water Quality
  - Enforcement
  - Return to compliance

- Dam safety
  - High-Hazard Potential Dams in poor or unsatisfactory condition

- Medicaid emergency waivers
Previously Suggested Measures

Measures suggested, but not adopted, a year ago

➢  …any changes that would warrant a second pass?

- Percentage of one-person households
  - As an indicator of social support and social capital, this measure may reflect the ability of individuals to rely on support from others for routine or emergency assistance. However, at least one study does not support this rationale.

- First responder health and safety (fatalities)
  - Lower fatality rates may reflect superior health and safety practices and enhanced workforce capability to respond to emergencies. But many other factors affect fatalities—not just occupational health practices.

- Age of housing stock
  - Housing age may reflect the degree of population vulnerability to environmental hazards such as lead paint exposure and extreme weather events.
Previously Suggested Measures, cont.

- **Housing stock construction resiliency**
  - Residents of housing units that are manufactured or mobile homes may be less resilient to health hazards associated with extreme weather events.

- **Bridge structural integrity**
  - The structural integrity of bridges may be an indicator of the transportation system’s resilience to natural disasters and its capacity for supporting emergency-related surges in utilization.

- **Personal and household preparedness**
  - **FEMA National Household Survey, 2015**
    - July 2015, 5,000 respondents, questions on preparedness and awareness of actions (e.g., plan, supplies), however, doesn’t support state-level estimates (yet)
  - **HUD American Household Survey**
    - National estimates only in 2013
    - State variable present in 2015, but the disaster planning module not included
Data are widely available on many measures for …

- Cities (talking to NACCHO)
  - DC included in 2017
  - Collecting data from NYC, Chicago, LA
  - Expand to other cities?

- Territories (reaching out to ASHTO)
  - PR, Guam, VI, others depending on data availability

Are local-level data available?

- We estimate data are available for 98 of the 120 measures—82%--for the three cities of interest, LA, NYC, and Chicago.
  - Some are easily acquired city-specific (e.g., OES BLS measures), some are state-level that are still applicable for cities (e.g., the APHL measures), and some we can get with additional digging (e.g., voting turnout rates, MRC, hospital EHR meaningful use).
For More Information

National Program Office
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Glen P. Mays, Ph.D., M.P.H.  glen.mays@uky.edu

Email:  NHSPI@uky.edu
Web:  www.nhspi.org
       www.systemsforaction.org
Journal:  www.FrontiersinPHSSR.org
Archive:  works.bepress.com/glen_mays
Blog:  publichealtheconomics.org

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