



Building Preparedness Capacity

Addressing Populations with Access and Functional Needs



North Carolina Institute for Public Health

with Special Guest

Betsy Kagey, PhD, MSPH

Georgia Department of Public Health



June 3, 2015

North Carolina Institute for Public Health (NCIPH)

- Service arm of the Gillings School of Global Public Health at UNC-Chapel Hill
- Since 1999 has served as a bridge between academia and partners in community organizations and government agencies

Deliver training, conduct research and provide technical assistance to transform the practice of public health for all



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Objectives

- Describe how the Vulnerable and At-Risk Populations Guide can identify vulnerable and at-risk populations
- Discuss strategies for engaging vulnerable and atrisk populations in local preparedness planning
- Identify lessons learned from communities working with vulnerable and at-risk populations to enhance preparedness efforts



Planning & Resilience

All-Hazards Planning

 Based on the concept that jurisdictions should develop, exercise and revise core plans that address all hazards, whether natural, accidental, negligent or intentional

Community Resilience

 Ongoing and developing capacity of the community to account for its vulnerabilities and develop capabilities that aid that community in mitigating, recovering, and strengthening



Individuals with Access and Functional Needs

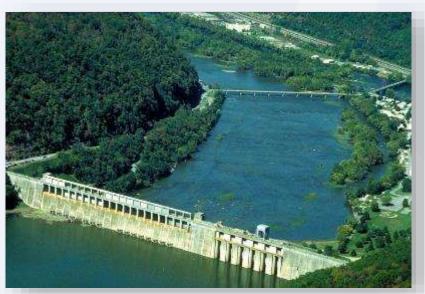
- Individuals who may have difficulty accessing public health and medical services they require following a disaster or emergency
- Referred to as "at-risk", "special needs" or "vulnerable" populations
- At-risk groups may include:
 - Children
 - Senior citizens
 - Pregnant women
 - Persons living with disabilities
 - Persons living in institutions
 - Persons from diverse cultures

- Persons with limited English proficiency
- Transportation disadvantaged
- Persons with chronic medical disorders
- Persons with pharmacological dependency



Defining Vulnerability

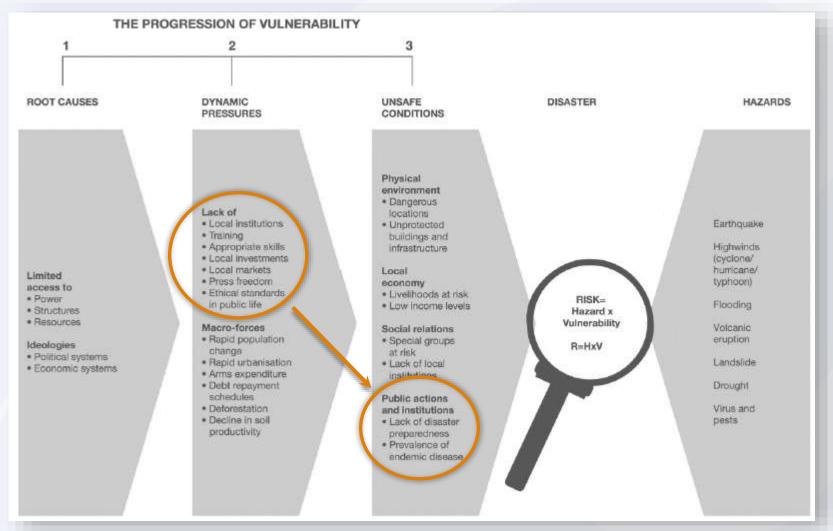
"Vulnerability is the pre-event, inherent characteristics or qualities of a social system that create potential harm. Vulnerability is a function of exposure (who or what is at risk) and sensitivity to the system (the degree to which people and places can be harmed)".



Bluestone Dam, West Virginia



Vulnerability and Risk



Pressure and Release Model – Progression of Vulnerability (Blaikie et al. 2003)



Vulnerability is Multidimensional

Resource limitations:

- Economic poverty and link to hazardous environments and in adequate nutrition
- Educational ability to understand health information and make informed choices
- Social support system
- Health status physical, biological, psychological
- Health risk lifestyle, environmental





Developing Your Plan

Assess Current State

- Response roles and responsibilities
- Resources (health dept. and partners)
- Progress and needs in developing PHEP capabilities

Determine Goals

- Review jurisdictional planning and assessment documents
- Prioritize PHEP capabilities
- Develop short and long-term goals

Develop Plans

- Implement goals
- Plan for how to build and sustain capabilities
- Evaluate progress



Developing Your Plan



- Assess at-risk populations
- Set priorities based on findings
- Define public health's primary responsibility
- Define partners
- Collaborate and engage
- Reassess and refine



Assess At-Risk Populations

Ability to set priorities based on evidence

- How many?
- Where do they live?





Social Vulnerability Index (SVI)*

- Metric that combines 14 census variables
 - Indicators of social vulnerability
 - Focuses on a set of population groups
 - Different domains of potential vulnerability
- Mapped at the local jurisdiction level
 - Spatially identifies socially vulnerable populations
 - Constructed at a smaller unit for local planning

*Developed by CDCs Geospatial Research, Analysis, and Services Program (GRASP), 2011



Social Vulnerability Index (SVI)*

Intended to capture a diverse range of populations

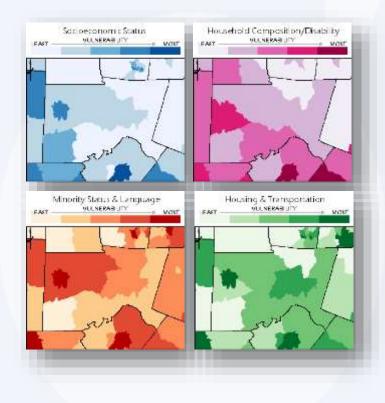
Socioeconomic Status

- Includes income, poverty, employment, and education variables
- Household Composition and Disability
 - Includes age, single parenting, and disability variables

Minority Status and Language

- Includes race, ethnicity, and English language proficiency variables
- Housing and Transportation
 - Includes housing structure, crowding, and vehicle access variables

*Developed by CDCs Geospatial Research, Analysis, and Services Program (GRASP), 2011



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Levels of Planning

Planning for the "whole community" varies by scale and "community"

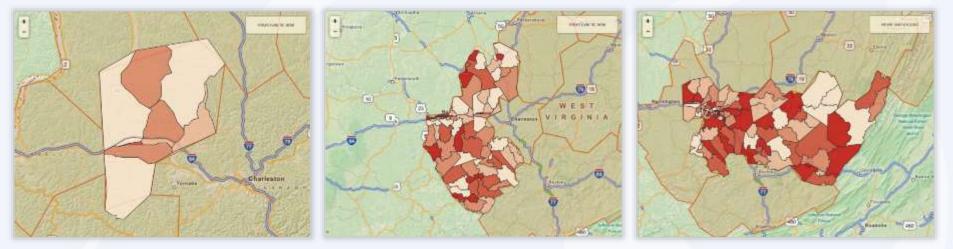


Illustrates each jurisdiction's vulnerable populations at the census tract level



Making Planning Local

Planning for the "whole community" varies by scale and "community"



Putnam County

Bundle Team Public Health District

Region 3/4 Hospital EMS Region

Example of Putnam County across multiple planning regions



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Translation to Practice



Special Guest Betsy Kagey, PhD, MSPH Academic Liaison Georgia Department of Public Health





Georgia's Four Seasons of Climate Change



Drought



Floods



Wildfires



Ice storms





www.VARPguide.com

Welcome

Better outreach. Better preparedness.

Vulnerable 8 Al-Risk Populations Resource Guide assists state and local public health agencies, emergency management, toopitals, and ofter agencies with improved, local mapping options (castom mapping available). Direct links to population and partner-specific resources and bools are selected to help improve partnerships and planning for the "whole community."

Register and login to access special feetures, including the shilly to bookmark, export, and share your own resourced!

NEWS >> MARK YOUR CALENDARS

You're invited to join our official launch and "virtual" four on Toesday, June 17th at 2pm. Learn more about the site and its features.



Be sure to register here to reserve your space?

Featured	Recent Resources
Latest Project Findings Head more about the project findings sholed at this year's NACCHO Program In building competency and capability for st-lisk accountions sharing, highlighting too internal and external challenges to proteoredness.	KDS COUNT A project of the Anne E. Casey Foundation, KDS DOUKT is a national and state-by-atate effort to hack the well-being of children in the United States by providing high-quality date and hand analysis.
Check out our latest presentation so New more project communications so	

Planning for your Community Choose a state >> Choose an Area >> Choose a Place

Log in/Register



View vulnerability data, more accurately,

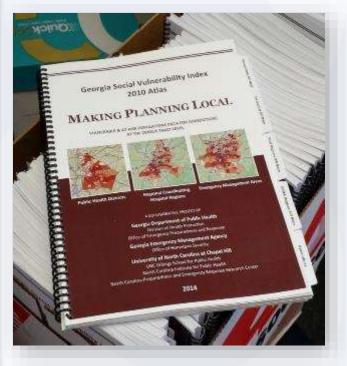
Maps & Date options allow you to salest from view multiple levels. Each level offers receivered \$45 massures, adapted to your selected uses, to help you befor play for your "whole community." The different levels allow you to view SVI measures relative to your planning area to see how valuerability varies across the area. Services available to state and local agencies.

4.8

Success Stories

Integrating Vulnerable Populations into Georgia's GODAWGS

Learn more about the interagency portnership between Georgia Department of Public Health (GDPH) and Deorgia Emergency Management Agency (GEMA) to integrate custom Social Watershilly (inter (SVI)) lavers into Georgie Online Disaster Awareness Geospetial System (GOD/WGS).



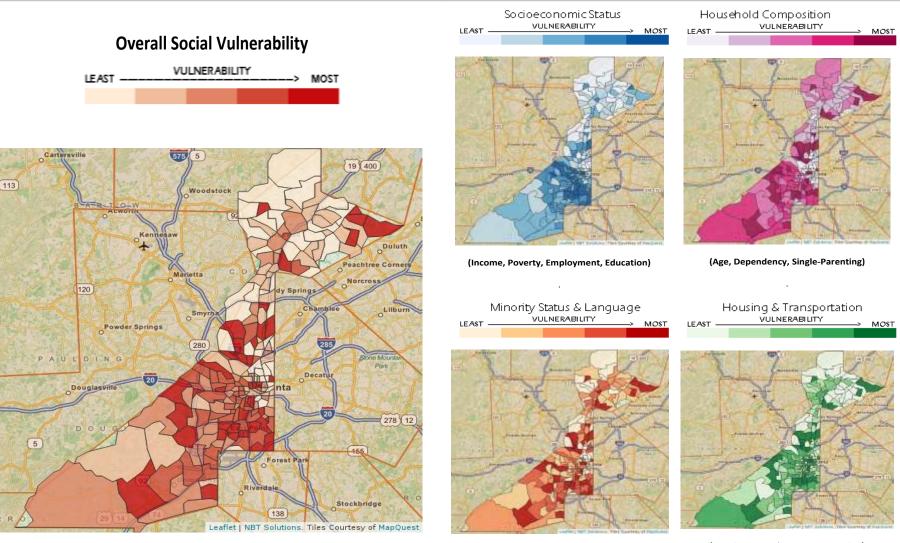
Releasing a printed Atlas to EP planners in Georgia

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Georgia Public Health District – Fulton (3-2)



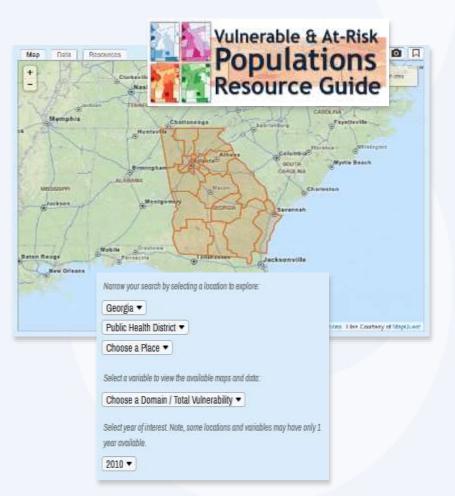
(Minority Status, Non-English Speaking)

(Housing, Crowding, Transportation)



Beyond the Atlas

- Complement to the printed atlas
 - VARPguide.com
- Accessing Georgia data
 - Public Health Districts
 - Regional Coordinating Hospitals
 - Emergency Management Areas
- Offers online resources





Maps & Data

This page enables you to explore the many different kinds of demographic data available, exploring via map and data table to see the vulnerability of populations in a selected area. Start by choosing where your search will take place (five states currently included in this plot project), and then move through the variables to view maps and data about the populations living in your selected area.

To create your map, use the drop down menu to narrow your search by selecting a location to explore.

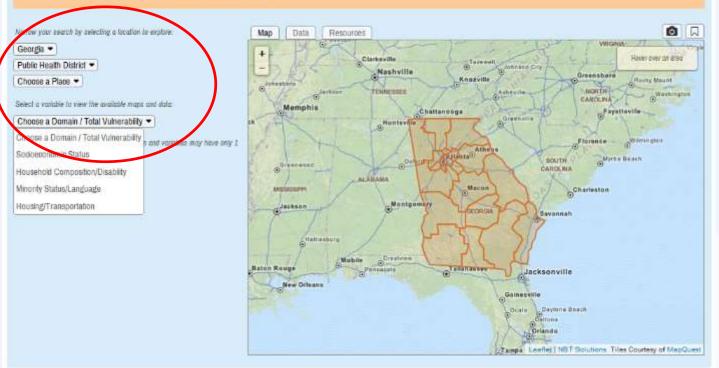
Choose a state >> Choose an Area >> Choose a Place

Use the drop down menu beneath to select the level or variable of vulnerability to view. To scroll down the list, simply clok on the list and hold your mouse button to side it up or down. You can view the level of vulnerability for each census tract in the map by hovering over the tract. Alternatively, you can view a table of the data by cloking on the Data tab located at the top of the map area.

BONUS >> After you've created your map and selected your vulnerability domain or variable, you can view a list of matching Resources by clicking on the tab.

For Registered Users >> You have the option to bookmark your map and data for later use. Bookmarked maps are listed on your MyPage.

If you are not already registered, you can create your account here >>





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Don't see your state? Contact the Project Team to jind out how your area can be included >>

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BONUS >> A Narrow your search by selecting a location to explore: Resources Map Data For Regist Georgia 🔻 Ł Socioeconomic Status If you are i Public Health District 🔻 **Total Rankings** Fulton 🔻 Narrow your se Tract FIPS **G1TOPRGA** G1TOPRPHD G1V1PRPHD G1V2PRPHD G1V3PRPHD G1V4PRPHD Select a variable to view the available maps and data: Georgia • 0.9216 0.8821 0.5517 0.9655 0.6404 13121005700 0.94 Socioeconomic Status 💌 Public Health 13121001800 0.423 0.8382 0.9557 0.9212 0.0938 0.8212 Total (%) - or specific variable... 🔻 Choose a Pla 0.133 0.5222 0.3941 13121003200 0.209 0.3827 0.4877 Select a variable Select year of interest. Note, some locations and variables may have only 1 13121010119 0.394 0 4412 0.5419 0.2906 0.6749 0.4039 Choose a Do year available. 13121010120 0.148 0.3088 0.0985 0.4288 0.4877 0.3251 Choose a Do 2010 -13121010121 0.119 0.4383 0.9409 0.4631 0.2759 0.197 Sodoeponom 13121002800 0.701 0.6765 0.8424 0.3399 0.7734 0.5882 Household Cr Mnorty Statu 0.0248 0.2709 13121002900 0.161 0.3039 0.5222 0.5123 Housing/Tran 13121010508 0.273 0.3824 0.2266 0.5025 0.6108 0.2906 13121002100 0.83 0.7402 0.8867 0.8278 0.1872 0.8276 13121003900 0.992 0.9755 0.867 0.87 0.9704 0.7783 13121002800 0.5588 0.7044 0.8552 0.7488 0.2069 0.696 13121980000 -999 0.4314 0.0049 0.8177 0.197 0.8177 0.0887 0.2512 13121000100 0.039 0.0931 0.2315 0.2483 13121001500 0.21 0.7353 0.8818 0.8227 0.1921 0.8227 13121003100 0.811 0 8887 0 8404 0.5981 0 7537 0 5517



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Adairsville

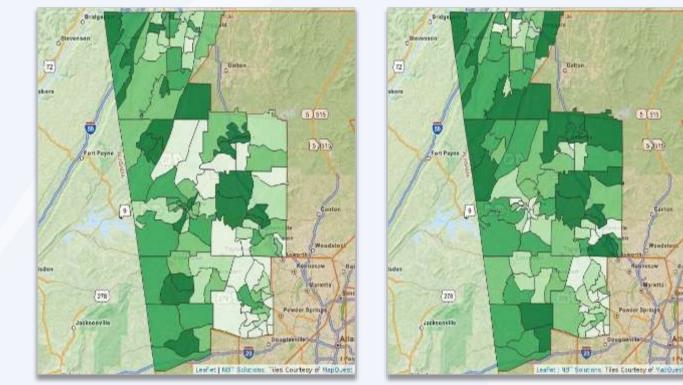
January 2013





HD 1-1 Northwest Georgia 2010 SVI Data

Planning for Tornados



Housing and **Transportation**

% Mobile Homes



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Limitations of SVI Mapping

- Scale
 - Census Tract
- Timeliness of Data (2010)
- Completeness
 - Know the variables
 - There are other things that make people vulnerable



How Can Public Health Make a Difference?

- Identification (outreach and case finding)
- Linking to health services (case manager)
- Developing or revising programs to meet needs
- Educating how to promote health
- Ensuring a competent work force
- Providing direct care
- Advocating for programs and services to meet specific needs



Involve Target Groups In Planning

- Primary data collection
- Identification and involvement of key stakeholders
- Identification and training of community organizations serving the target populations
- Creating a special planning group



Institutional Preparedness and Planning

- Train, advocate for, and assure institutions that work with these groups are prepared:
 - Intellectually disabled
 - Drug and/or alcohol dependent
 - People in nursing homes or assistedliving facilities
 - Adults and children in criminal justice system
 - Children in school or foster care





Alignment w/ PHEP Capabilities

- Engage public and private organizations in preparedness activities that represent the functional needs of at-risk individuals as well as the cultural and socio-economic, demographic components of the community. (Capability 1, Function 1.)
- Identify those populations that may be at higher risk for adverse health outcomes. (Capability 1, Function 1.)
- Identify the potential hazards, vulnerabilities, and risks in the community that relate to the jurisdiction's public health, medical, and mental/behavioral health systems. (Capability 1, Function 1.)
- Work with emergency management and community and faith-based partners to identify the public health, medical, and mental/behavioral health services. (Capability 1, Function 3.)
- **Build community partnerships** to support public health preparedness (Capability 1, Function 2.)
- Facilitate the collection of geographically-specific data (Capability 1, Function 1.)



Applications to Practice

Leverage resources into opportunities

- Plan more efficient evacuations
- Identify neighborhoods that may need services
- Effectively target and support community-based efforts
- Apply evidence-based decisions to support practice
- One piece of the complex puzzle
 - Help the whole community get prepared, stay prepared and be ready
 - Effective risk reduction and mitigation



Thank You

For additional questions, contact us at: VARPguide@unc.edu

Visit the Vulnerable & At-Risk Populations Resource Guide at:

www.VARPguide.com

