RISK REDUCTION FOR SMALL BUSINESS RESILIENCY IN RHODE ISLAND

CONNECTICUT ASSOCIATION OF FLOOD MANAGERS CONFERENCE October 30, 2019

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In Rhode Island:

- 99% of businesses are "small"
- Small businesses employ 53% of private workforce

Intended Outcomes

- Create tailored risk prevention guides with relevant, actionable risk reduction measures
- Promote understating of how to prepare for and minimize potential future losses from extreme weather events.
- Engage business owners in the statewide climate adaptation strategy.
- Educate municipal decision makers on how local business community can become more resilient to natural disasters.
- Identify recommendations for state and local agencies to support small business resilience.

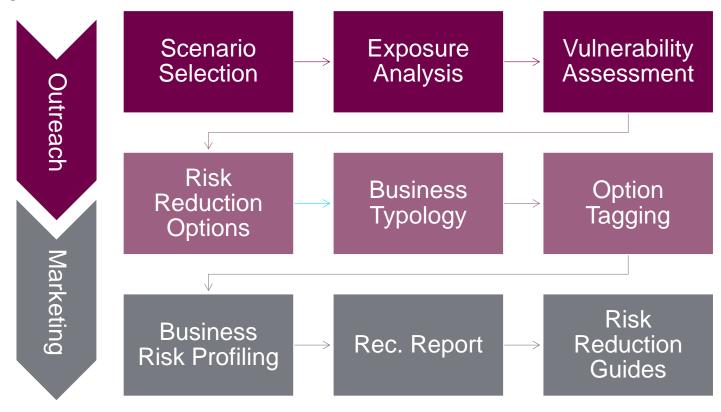


Project Team

- RI Division of Statewide Planning
- Steering Committee
- RPS
- Milone & MacBroom Inc. (MMI)
- URI Coastal Resources Center (CRC)
- Climate Action Business Assoc. (CABA)
- RI Small Business Dev. Center (RISBDC)
- Spaulding Env. Assoc.



Project Tasks



Outreach



We Want to Help YOU!

By collecting your input, we can help you prepare.

COME TO US! Participate in a Focus Group to provide input on improving small business resiliency in Rhode Island.

WE'LL COME TO YOU! Allow a member of the Project Team to come to your business to address your specific vulnerabilities.

REVIEW OUR WORK! Review the draft Risk Reduction Guides and provide us feedback on what we missed.

For More Information:

Visit: http://www.climatechange.ri.gov/smallbiz Email: Project Manager Gabrielle.McGrath@rpsgroup.com

Risk Reduction for Small Business Resiliency: A Project to Prepare Rhode Island Small Businesses for Extreme Weather Events



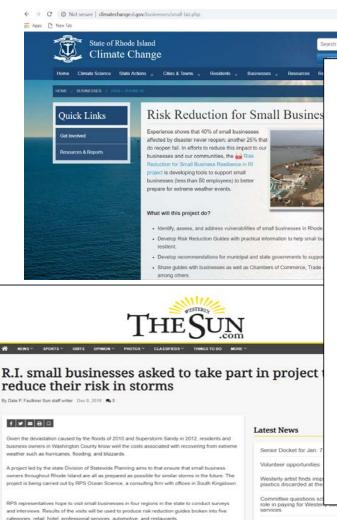












Statewide Planning to interview small businesses for weather-resiliency project











THE R.I. DIVISION of Statewide Planning is leading a project to support small businesses' ability to survive extreme weather events. Above, a machine clears sand off Atlantic Avenue in Westerly after Hurricane Sandy. / PBN FILE PHOTO/BRIAN

PROVIDENCE - The R.I. Division of Statewide Planning is launching a project to help small businesses' extreme weather event and climate change resiliency, the R.I. Department of Administration announced Wednesday. As a pilot to the program, the division is seeking to interview local businesses in the Woonasquatucket Watershed, companies in Bristol, Newport and Warren, as...

Outreach

- 10 Key Informant Interviews
- 4 Focus Groups held (3 cancelled)
- 3 Additional Informationgathering Meetings
- Conducted "on the ground" outreach directly with businesses

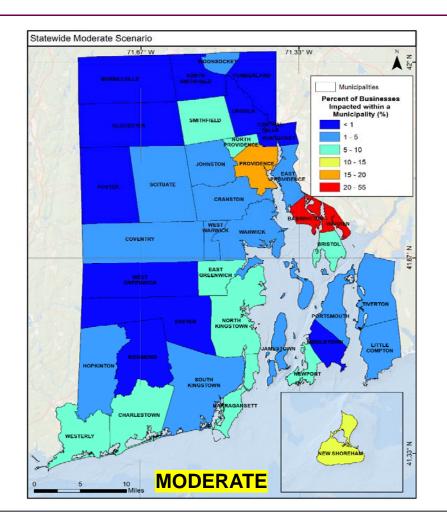
43 Business Owners
40 Professional Group
Members
83 Total Participants

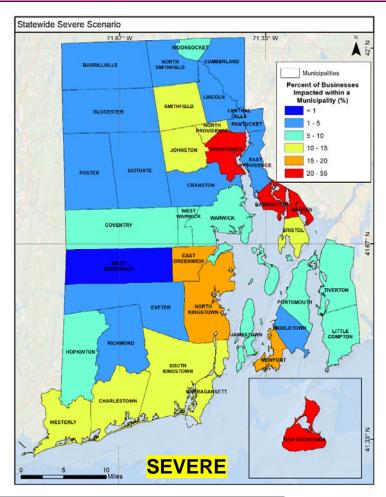
Scenarios Selected

Event Type	Coastal Flooding	Inland Flooding	
Moderate	25-Year Water Level	100-Year Flood	
Severe	100-Year Water Level + 2 Feet of Sea Level Rise	100-Year Flood + 3 Feet of Freeboard	

Exposure Analysis Methods

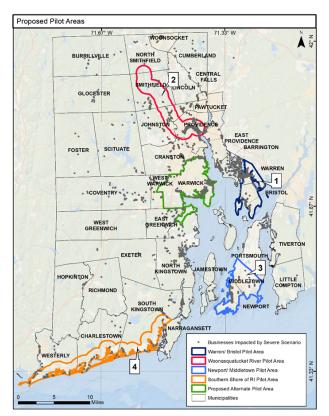
- Started with the Rhode Island Secretary of State Business Database
- Identified business physical locations from E911 data
- Assessed impacted businesses for each scenario
- Looked at inland and coastal, moderate and severe flooding scenarios separately and combined
- Considered percent of businesses impacted by municipality





Pilot Area Selection Considerations

- Most impacted areas
- Must be a community tied to a disaster (i.e. Sandy, Irene, Nemo)
- Other considerations:
 - A community "champion"
 - Existing community activities
 - Support of local business community
 - Where businesses would be receptive



Vulnerability Analysis

Pilot Area	Completed	
Newport / Middletown	25	
South Coast	23	
Warren / Bristol	25	
Woonasquatucket River Corridor	26	
* Warwick	3	
TOTAL	102	





Vulnerability Analysis

- Extensive work effort to accomplish 102 assessments
- Types of businesses assessed were not as diverse as planned
- Storms have impacted multiple facets of businesses including access to property and clients, lost time while making claims, and operation interruptions
- Business owners are generally aware of risks and work to increase resiliency to the best of their ability
- Despite this, businesses are typically self-reliant and believe they could sustain a temporary shut-down

Risk Reduction Options

Operational/Continuity

- Multiple locations available
- Partial operations
- Inventory management or sharing
- Work from home
- Business continuity plan
- Multiple supply chains/vendors
- Backup electronic data

Logistical

- Flexible rental payments
- Business interruption insurance
- Purchase flood insurance
- Review coverage, store copies of insurance policies, dialog with agents

Operational/Emergency Preparedness

- Sandbags
- Plywood for windows
- Emergency plan w/ communications strategy
- Staff contact tree/list/email
- Maintain supplies for staff
- Trim and maintain trees and tree limbs
- Install and use generator
- Consider microgrids
- Programming of elevators

Structural Improvements/Wind

- Hurricane Glass for Windows
- Increase code for wind ("code plus")

Risk Reduction Options - Structural / Operational / Logistical

Category: Structural Improvements / Wind

Option Name: Hurricane Glass for Windows

Description

Hurricane glass provides increased tensile strength, which guards against penetration by flying debris and winds. Hurricane glass also reduces the need for plywood installation when a storm approaches, giving home and business owners more time to prepare or evacuate.

Costs

\$\$\$

\$ Nominal \$\$ >\$1,000 \$\$\$ >\$10,000 \$\$\$\$ >\$100,000

Staffing

Additional staff not needed; existing staff will coordinate contractors

Space

Additional space not needed

Permitting

Local building permit

Applicable Businesses

All types

Category: Operational / Continuity

Option Name: Back Up Electronic Data

Description

Companies should frequently back up electronic data to ensure that critical information is not stored in a single location. A cloud service can be employed which automatically backs up information to a central offsite server. Additionally, IT employees can use portable hard drives to back up company files if there is an impending emergency situation.

Costs

\$ to \$\$ \$ Nominal \$\$ >\$1,000 \$\$\$ >\$10,000 \$\$\$\$ >\$100,000

Staffing

An IT professional may be needed to ensure that regular backups of electronic data take place.

Space

Additional space not needed

Permitting

Not applicable

Applicable Businesses

All types



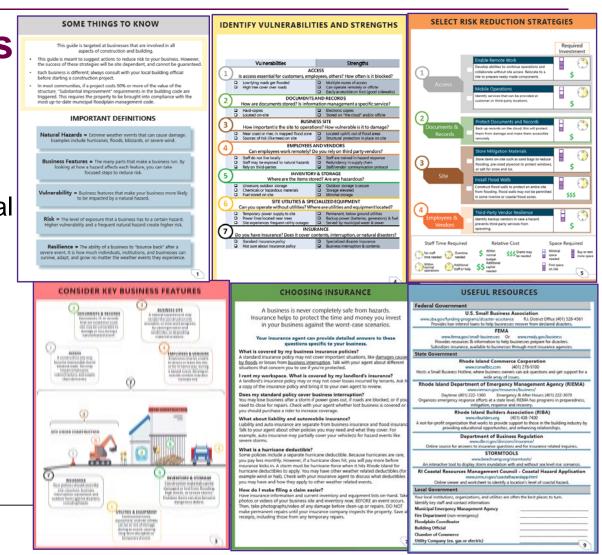


Risk Reduction Guides



Risk Reduction Guides

- Important Definitions
- Identify Your Strengths and Vulnerabilities
 - Includes graphic depicting potential vulnerabilities and strengths
 - Checklist with business specific elements
- Risk Reduction Strategies
- Insurance & Flood Insurance Questions
- Additional Resources



Marketing and Evaluation

Face-to-face: Meetings, Conferences, Door-to-door

Emails: Vulnerability Assessment businesses, Chambers,

Associations, Organizations

- Website with survey
- Email directly to businesses

Social Media: URI, RPS, Chambers posted on Facebook, Twitter, LinkedIn

Incentives

- \$500 ACE Hardware Gift card
- ❖ 1-page targeted risk reduction recommendations

Marketing and Evaluation Outreach

52 individuals reviewed the guides.

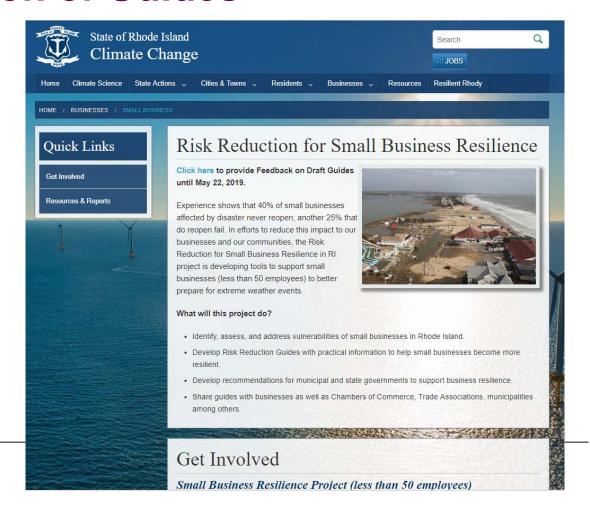
57 evaluations were received - some evaluated more than 1 guide

	# of Evaluators
All/ General	3
Construction	6
Hospitality	3
Manufacturing	4
Real Estate/Property Management	8
Restaurant/Food	4
Retail	11
Service Provider	6
Water-Dependent	12
Total	57
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What did the Evaluators say?

	Yes	No	Blank/Other
Does this booklet cover all the main points related to small business adaptation?	31 (60%)	10	11
Would you recommend this as an information source for others?	39 (75%)	2	11
Did you learn anything new by reading this booklet?	34 (65%)	7	11

Distribution of Guides



How Can the Guides be Used?

- Small business development or loan programs
- Proactive planning
- Training opportunities
- Resources for Associations, Chambers, etc.
- Coordinating with Municipal Planning and Economic Development programs
- Resource and outreach through Commerce RI Small Biz Hotline

Resiliency Recommendations – State Agencies

- Transition project to State agencies
- Short-term, interest-free loans
- Training on Substantial Damage and Substantial Improvement
- Training on Preparedness Initiatives
- Assistance with Disaster Plans
- Small Business Resilience Audits
- Expedite Permitting
- Outreach about variances for historical structures

- Guidance for historic buildings
- Insurance Information
- Streamline confidentiality issues
- Training for entities to act as small business liaisons
- Work with utilities to strengthen grid
- Implement use of microgrids



Roberta Groch Assistant Chief Rhode Island Division of Statewide Planning



David Murphy
Manager of Water Resources Planning
Milone and MacBroom, Inc. (MMI)

Questions?

Future Comments, Questions, or Concerns?

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