



Broward County Healthcare Coalition 2023 HVA Report

Summary:

The Healthcare Coalition is required to conduct and annually review their Hazard Vulnerability Analysis (HVA). The HVA provides a systematic approach to recognizing hazards that may affect demand for the hospitals services or its ability to provide those services. The risks associated with each hazard are analyzed to prioritize planning, mitigation, response and recovery activities. The HVA serves as a needs assessment for the coalition and its members to prepare for emergencies, disasters, and events.

The Broward County Healthcare Coalition (BCHC) utilized the Kaiser Permanente HVA Tool to develop the 2023 HVA. BCHC began the process of reviewing and updating the HVA in October 2022 and sent out a blank HVA to all members via email for input. BCHC received input from 48 member agencies that includes, but is not limited to acute care hospitals, EMS, local emergency management, local department of health/ESF-8, SNF/ALFs, and home health agencies. The input from member agencies were analyzed and compiled into one document. The preliminary results were presented to the members during the December 2022 General Body Meeting. An additional meeting was conducted in January 2023 to review and discuss the results of the 2023 HVA. The document was distributed to the members via email for any additional comments and concerns prior to being finalized. The final 2023 HVA and report document was distributed to members on January 9, 2023 and posted on the BCHC website to be accessed by members with log-in credentials.

The results of the HVA will be used to inform the healthcare coalitions' annual workplan, identify trainings/exercise to enhance emergency preparedness, mitigate risks and fill gaps outlined in the HVA.

Input from the following HCC member agencies:

Broward Sheriff's Office Fire Rescue
All Broward Home Health
Baptist Health System - Corporate
Broward Health Coral Springs
Broward Health Imperial Point
Broward Health Medical Center
Broward Health North
Broward County Aviation Department

Broward County Emergency Management
BSO Emergency Management
Care Resource
Catholic Home Health Services
Cleveland Clinic Florida
Coral Ridge Outpatient Clinic
Coral Springs FR
Davie FR



Florida DOH- Broward County
 Fort Lauderdale Behavioral Health
 Fort Lauderdale FR
 Fort Lauderdale Health and Rehab Center
 Hallandale Outpatient Surgical Center
 HCA Florida Northwest (Formerly
 Northwest Medical Center)
 HCA Florida University Hospital (New
 Hospital in Davie)
 HCA Florida Westside Hospital
 HCA Florida Woodmont Hospital (Formerly
 University)
 Hollywood FR
 Holy Cross Hospital
 Larkin Community Hospital
 Lauderhill FR
 Lighthouse Point FR
 Manor Pines Convalescent Center

Margate FR
 Memorial Health System- Corporate
 Memorial Hospital - Miramar
 Memorial Hospital- Pembroke
 Memorial Regional Hospital
 Memorial Regional Hospital South
 Memorial Hospital West
 Miramar FR
 North Lauderdale FR
 Oakland Park FR
 Pembroke Pines FR
 Plantation FR
 Pompano Beach FR
 Seminole Tribe FR
 Steward Florida Medical Center (Formerly
 FMC)
 Sunrise FR
 Surgery of Weston

2023 HVA Results (top 3 risk in each category)

Natural Hazards

1. Hurricane
2. Flood, External
3. Epidemic / Pandemic

Human Hazards

1. Bomb Threat / Mass Casualty Incident
2. Active Shooter / Mass Fatality
3. Bomb

Technology

1. Supply Shortage
2. Water Failure
3. Rx/ Medical Supply Shortage

Hazardous Material

1. Biological Incident
1. Radiologic Incident
1. Chemical Incident

NATURAL RELATED EVENT HVA FOR BROWARD COUNTY HEALTHCARE COALITION													
EVENT	PROBABILITY	SEVERITY= MAGNITUDE - MITIGATION											
		HUMAN IMPACT	PATIENT CARE	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	TRAINING	INTERNAL RESPONSE	EXTERNAL RESPONSE	RISK			
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Decrease in Ability To Provide</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Staff Competency</i>	<i>Time, effectiveness, resources</i>	<i>Time, effectiveness, resources</i>	<i>Relative threat*</i>			
SIGNIFICANCE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 - 100%			
Hurricane	3	2	2	3	3	1	1	1	2	50%	3		
Flood, External	3	1	1	2	2	2	2	2	2	46%	2		
Epidemic	3	3	3	1	2	1	1	2	1	42%	1		
Pandemic	3	3	3	1	2	1	1	2	1	42%	1		
Pandemic- Influenza	3	2	3	1	2	1	1	2	1	38%			
Severe Thunderstorm	3	1	1	2	1	1	1	1	1	29%			
High Wind Warning	2	2	1	1	1	2	2	2	2	28%			
Earthquake	1	2	2	3	2	3	2	2	2	19%			
Temperature Extremes	2	1	1	2	1	1	1	1	1	19%			
Tidal Wave	1	1	1	1	1	3	3	3	3	17%			
Drought	1	1	1	1	1	2	3	3	3	15%			
Sinkhole	1	1	1	1	1	3	2	2	3	15%			
Tornado	1	2	1	2	1	2	2	2	1	14%			
Wild Fire	1	1	1	0	0	1	1	1	1	6%			
Dam Inundation	0	0	0	0	0	0	0	0	0	0%			
AVERAGE SCORE	1.87	1.53	1.47	1.40	1.33	1.60	1.53	1.73	1.60	18%			
			RISK =	PROBABILITY *	SEVERITY			*Threat increases with percentage.					
			0.18	0.47	0.38								

HUMAN RELATED EVENT HVA FOR BROWARD COUNTY HEALTHCARE COALITION

EVENT	PROBABILITY	SEVERITY= MAGNITUDE - MITIGATION									
		HUMAN IMPACT	PATIENT CARE	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	TRAINING	INTERNAL RESPONSE	EXTERNAL RESPONSE	RISK	
	Likelihood this will occur	Possibility of death or injury	Decrease in Ability To Provide	Physical losses and damages	Interruption of services	Preplanning	Staff Competency	Time, effectiveness, resources	Time, effectiveness, resources	Relative threat*	
SIGNIFICANCE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 - 100%	
Bomb Threat	3	2	2	2	2	2	2	2	1	46%	3
Mass Casualty Incident	3	3	2	1	2	1	2	2	2	46%	3
Active Shooter	2	3	3	2	3	2	1	2	1	36%	2
Mass Fatality	2	2	2	1	2	3	3	3	2	36%	2
Bomb	2	3	2	2	3	2	1	1	1	33%	1
Civil Disturbance	2	2	2	1	2	2	2	2	2	31%	
Community Event (Large Scale)	2	2	2	1	1	1	2	2	2	25%	
Hostage Situation	1	2	1	1	1	2	2	2	2	14%	
Labor Action	1	1	1	1	2	1	1	1	2	11%	
VIP Situation	1	1	1	1	1	1	1	1	1	8%	
AVERAGE SCORE	1.90	2.10	1.80	1.30	1.90	1.70	1.70	1.80	1.60	28%	

*Threat increases with percentage.

19.0

RISK =	PROBABILITY *	SEVERITY
0.28	0.63	0.43

TECHNOLOGICAL RELATED EVENT HVA FOR BROWARD COUNTY HEALTHCARE COALITION

EVENT	SEVERITY= (MAGNITUDE-MITIGATION)									
	PROBABILITY	HUMAN IMPACT	PATIENT CARE	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	TRAINING	INTERNAL RESPONSE	EXTERNAL RESPONSE	RISK
	Likelihood this will occur	Possibility of death or injury	Decrease in Ability To Provide	Physical losses and damages	Interruption of services	Preplanning	Staff Competency	Time, effectiveness, resources	Time, effectiveness, resources	Relative threat*
SIGNIFICANCE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1 = Low Impact 2 = Moderate Impact 3 = High Impact	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 = N/A 1=Highly Prepared 2= Moderately Prepared 3=Little Preparation	0 - 100%
Supply Shortage	3	3	3	1	3	2	2	2	2	54%
Water Failure	3	2	2	2	3	1	1	1	2	46%
Rx / Medical Supply Shortage	2	2	2	2	2	2	2	2	2	33%
Electrical Failure	2	2	2	1	2	2	2	2	2	31%
HVAC Failure	2	2	1	1	2	2	1	2	2	31%
Fuel Shortage	2	1	3	1	3	2	2	2	2	31%
Fire, Internal	2	2	2	2	2	2	1	1	1	28%
Sewer Failure	2	1	1	2	2	1	1	1	2	25%
Communications Failure	2	2	2	1	2	2	1	1	1	25%
Telecommunications Failure	2	2	1	2	1	1	1	1	1	22%
Medical Vacuum Failure	2	1	2	2	2	1	1	1	1	22%
Medical/Clinical Equipment Failure	2	2	2	0	2	2	2	2	0	22%
Information Systems Failure	1	2	2	2	3	2	2	2	2	18%
Generator Failure	1	3	3	2	3	1	1	1	2	17%
Medical Gas Failure	1	3	3	1	3	1	1	2	2	17%
Structural Damage	1	2	2	3	3	1	1	1	1	15%
High Risk Equipment Failure	1	1	1	2	2	2	2	2	2	15%
Steam Failure	1	3	3	2	1	1	1	1	2	14%
HazMat Exposure, External	1	2	1	1	1	2	2	2	1	13%
Flood, Internal	1	1	1	1	1	2	2	2	2	13%
Natural Gas Failure	1	2	2	1	2	1	1	1	2	13%
Fire Alarm Failure	1	1	1	1	2	1	1	1	2	11%
Transportation Failure	0	0	0	0	0	0	0	0	0	0%
Vertical Transportation Failure	0	0	0	0	0	0	0	0	0	0%
Helicopter Crash	0	0	0	0	0	0	0	0	0	0%
Loss of Community Support	0	0	0	0	0	0	0	0	0	0%
AVERAGE SCORE	1.38	1.62	1.62	1.27	1.81	1.31	1.19	1.27	1.38	17%

*Threat increases with percentage.

RISK =	PROBABILITY *	SEVERITY
0.17	0.46	0.36

HAZARDOUS MATERIALS RELATED EVENT HVA FOR BROWARD COUNTY HEALTHCARE COALITION

EVENT	PROBABILITY	SEVERITY= MAGNITUDE - MITIGATION									
		HUMAN IMPACT	PATIENT CARE	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	TRAINING	INTERNAL RESPONSE	EXTERNAL RESPONSE	RISK	
	Likelihood this will occur	Possibility of death or injury	Decrease in Ability To Provide	Physical losses and damages	Interruption of services	Preplanning	Staff Competency	Time, effectiveness, resources	Time, effectiveness, resources	Relative threat*	
SIGNIFICANCE	0 = N/A 1 = Low 2 = Moderate <u>3 = High</u>	0 = N/A 1 = Low Impact 2 = Moderate Impact <u>3 = High Impact</u>	0 = N/A 1 = Low Impact 2 = Moderate Impact <u>3 = High Impact</u>	0 = N/A 1 = Low Impact 2 = Moderate Impact <u>3 = High Impact</u>	0 = N/A 1 = Low Impact 2 = Moderate Impact Impact <u>3 = High Impact</u>	0 = N/A <u>1=Highly Prepared</u> 2= Moderately Prepared 3=Little Preparation	0 = N/A <u>1=Highly Prepared</u> 2= Moderately Prepared 3=Little Preparation	0 = N/A <u>1=Highly Prepared</u> 2= Moderately Prepared 3=Little Preparation	0 = N/A <u>1=Highly Prepared</u> 2= Moderately Prepared 3=Little Preparation	0 - 100%	
Biological Incident	2	2	2	1	2	3	2	3	2	36%	3
Radiologic Incident	2	2	1	1	2	3	2	3	2	36%	3
Chemical Incident	2	2	1	1	2	3	3	3	2	36%	3
AVERAGE SCORE	2.00	2.00	1.33	1.00	2.00	3.00	2.33	3.00	2.00	35%	

*Threat increases with percentage.

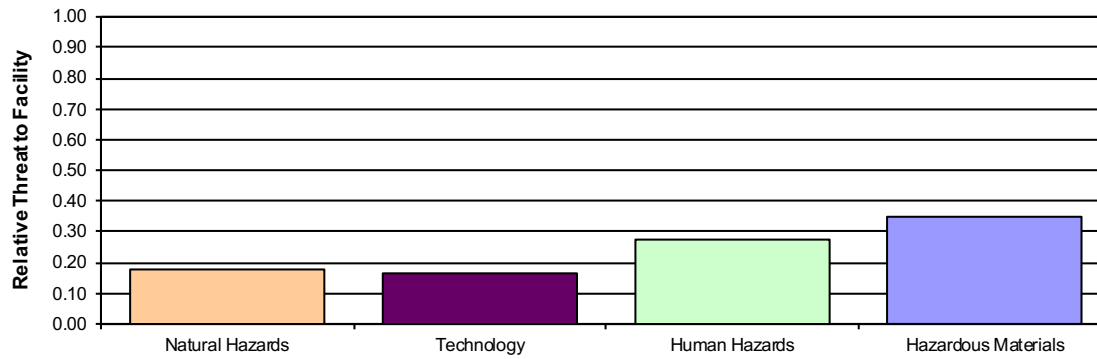
RISK =	PROBABILITY *	SEVERITY
0.347	0.67	0.52

SUMMARY OF - BCHC : HAZARDS ANALYSIS

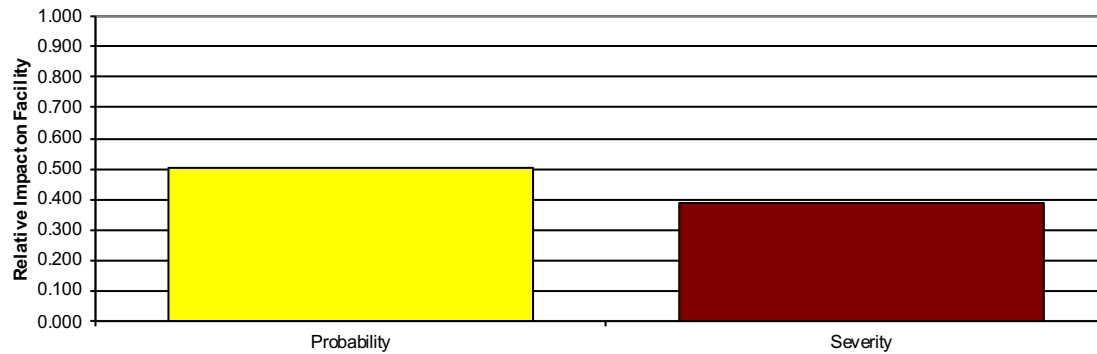
Broward County HealthCare Coalition

	Natural Hazards	Technology	Human Hazards	Hazardous Materials	Total for County
Probability	0.47	0.46	0.63	0.67	0.503
Severity	0.38	0.36	0.43	0.52	0.388
Hazard Specific Relative Risk:	0.18	0.17	0.28	0.35	0.19

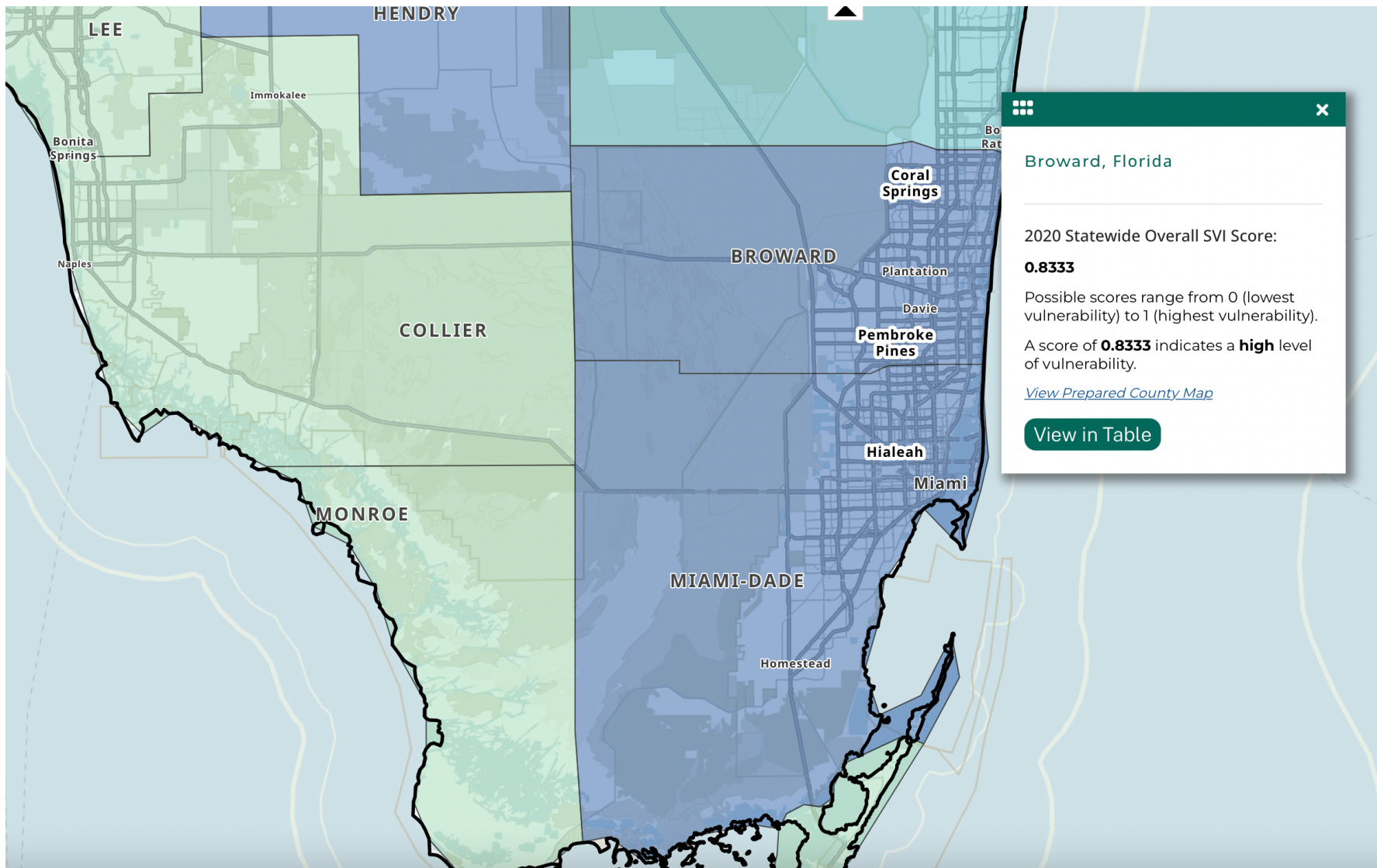
Hazard Specific Relative Risk to Broward Healthcare Coalition

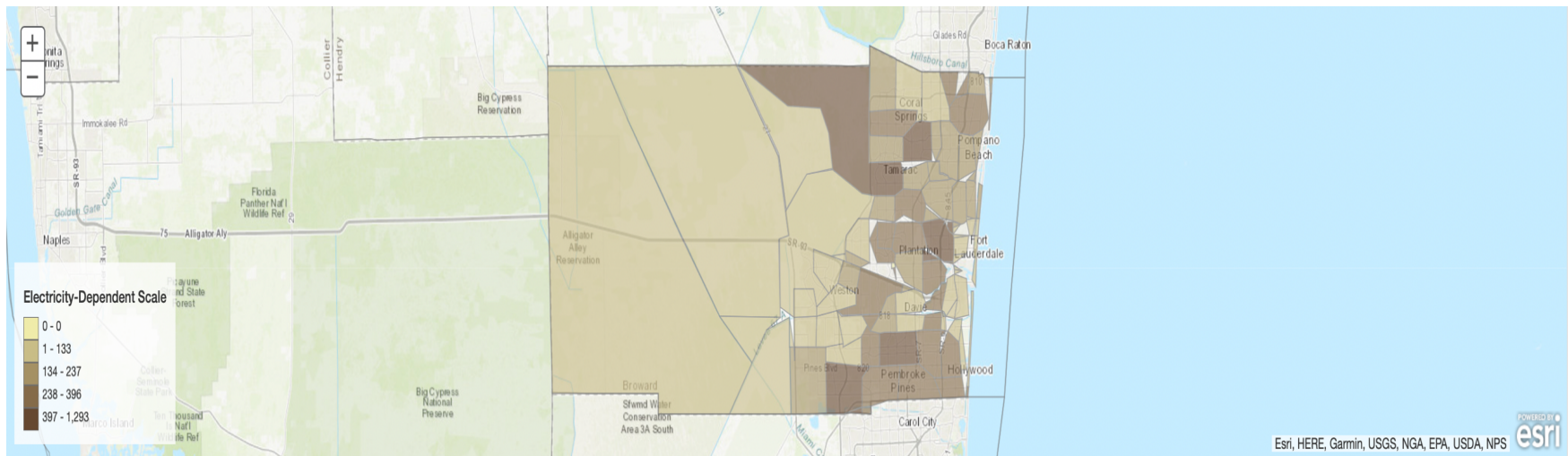


Probability and Severity of Hazards to Broward Healthcare Coalition



This document is a sample Hazard Vulnerability Analysis tool. It is not a substitute for a comprehensive emergency preparedness program. Individuals or organizations using this tool are solely responsible for any hazard assessment and compliance with applicable laws and regulations.





MEDICARE DATA TOTALS

TOTAL BENEFICIARIES:	343,774
TOTAL ELECTRICITY-DEPENDENT BENEFICIARIES:	11,193