# Appendix C: Workshop CRB Matrix

Clean CRB Matrix

Workshop CRB Matrices

Community Resilience Building	Risk Matri	x 📑	<b>322</b> (§)			www.Commu	nityResilienceB	esilienceBuilding.org				
		•		Top Priority Hazards	(tornado, floods, wildfire	, hurricanes, earthqua	ke, drought, sea level r	ise, heat wa	ve, etc.)			
$\underline{\mathbf{H}}$ - $\underline{\mathbf{M}}$ - $\underline{\mathbf{L}}$ priority for action over the $\underline{\mathbf{S}}$ hort or $\underline{\mathbf{L}}$ ong to $\underline{\mathbf{V}}$ = Vulnerability $\underline{\mathbf{S}}$ = Strength	erm (and <u>U</u> ngon	ngj						Priority	1			
Features		Ownership	V or S	_				<u>H</u> - <u>M</u> - <u>L</u>	<u>S</u> hort <u>L</u> on <u>O</u> ngoing			
Infrastructural		F										
Societal												
300.00												
Environmental												

Your Porto www.CommunityResilienceBuilding.org - 48 (A) Community Resilience Building Risk Matrix TARIE 1 Top Priority Hazards (tornado, floods, wildfire, hurricanes, earthquake, drought, sea level rise, heat wave, etc.) H-M-L priority for action over the Short or Long term (and Ungoing) Priority SEVERE HEAT, DROUGHT WINTER STORMS V = Vulnerability S = Strength FLOODING Short Long STORMS H-M-L WILDFIRES SNOW, ICE, Ongoing (WIND, events, etc Location Ownership V or S WIND **Features** Infrastructural explore other water intrastructure private private+ town Duldic generators + install backup generators + ADA compliant upgrades + installs Hown hall town Dublic municipal buildings (Paice, Fire) expand backup generators public town element + high school haising Drivate town V/S - drainage upgrades + maintenance Quabour st. / State-owned N/S evac route/ TOUN BUTH Mads - maintain/bridges and culverts Town Bridges BOTH inspert, replace + repair as needed South Poro Societal Senior Population town town Divate town Momes (housing taith-based (targeted) private V/2 town -increased community education + awareness public TWN Public Perception Audulan **Environmental** States Wildlife Management Areas town-wide enforce/expound roning Wetlands Dun V/S - comptehensive study, assess invasives, flooding, aker town Quabon River

Rivers

ams

town

	Community Resilience Building Ri	isk Matrix	74	<b>12</b> (4)				ityResilienceBu		
	H-M-L priority for action over the ≥hort or Long ter	m (and Ungoin	gl			tornado, floods, wildfire,	hurricanes, earthquak		se, heat wav	ve, etc.) Time
1	$\underline{V}$ = Vulnerability $\underline{S}$ = Strength				drought		FLOODING	SEVERE	H-M-L	Short Long Ongoing
1	Features	Location	Ownership	V or S	Wildfires	wind)		WIND events, etc.		
-	Infrastructural Span C			1/5	- undergrow	od utilities			1	
	powerlines	REGIONAL	N-GRID	NZ			es, bylans	(0.000.14	2) 0	
1	Communications Cell towers etc. Shelters + their capacity suitablity				- upgrade - identify +	coordinate w	verizon; con	toct (MEMA	90	
/	Shelters + their capacity	elementary, High school.				cuntain relati				
7	Railroad tracks		CSX	V	-continue + 1v	Comman Telection			13	
1	Gas Supply	Rt.9	private	2	- Continue exist	ing operations				
POTH?	G-s of F I									1
堂	Societal Drivak		I MANAGE							
1.2	Short term response Citizens	1) town	Citizens,	VA						
L	Familiarity w/ town	town	communders residents	NZ	- public away	reness for prep	preducts (il.	phone#s)		
1	Communications religious	town	186118		EDVIATEUN					
	Food Supply	1		V						
L	Bedroom Community	town								
	Healthcare facilities									
	Environmental		-	V						
=	Invasive Insects/pests	town		a Mariana	increase ROH	Building insp	ections	title 5	0	000
+	Septic System Creliability	)town	private		- ensure Title	5 inspections	compliance	Coordinater		
5			Public ta		-comprehens	Wedte -				
Infractive-ture	Vegetation ("opena" weeds. Wildlife bear, masse.	town!			Completer	11009				C
के के	Wildlife bear, marse,									

## Community Resilience Building Risk Matrix



Brookfield

### www.CommunityResilienceBuilding.org

Top Priority Hazards (tornado, floods, wildfire, hurricanes, earthquake, drought, sea level rise, heat wave, etc.) H-M-L priority for action over the Short or Long term (and Ungoing)

Y = Vulnerability S = Strength		DR / 117 / 2115.	,			Priority	Time		
Features	Location	Ownership	Vors	DROUGHT, WILLER, Heat	Winter Storms	flooding	Severe Storms	H - M - L	Short Long Ongoing
Infrastructural		Ownersing	V OI 3						
Bridges	Town Wide webst Road	Town owned	LV	THE RESERVE		- Conduct assument of existing Conditions Coordinate W/ Mass Dot	7 1/4	4	0
EVacuation Rosest/Plan(soms)	Tt 9; Tie 148; Pinelane	State Occased	VIS	SEE ONER LOT) JECHILE RAN /SCHILL	DUTING CHARLICATION	Revisa Rock+ Companisher w/ ETA, Schools	>	m	10
Mobile home Water systems	Mobile homes(3)	s) Private	7	See other Sheers			PAN	m	0
Electre Wills / Street Hors	Town wide	Abdonal Gited	V	Continu to Continue With Nati Git				H	0
Town Buildings (Ighteny), Lack of generators		Town	V	· Evance Emilyency Grabi	I was Capteres Vools	00	> >	H/m	5/2
Rock	EGS+ NOGH SHAP	Town	V			Continue to Public Rehabilitation Program See DRAINAGE	THE REAL PROPERTY.	m	0
Societal CSX (Infrestructur)	177	Private	\ V	- DURINGE . FIRE HESCUS -		ture Sen	A STATE OF THE STATE OF		10
Reverse 911	Town wide	Taun	S	EXPENS usage for e vacus Continue to Support	- Asses levels of USe/OLLI			W	0
Land use / Stam water Regulations	Town wide	Vafres	V			· Review Stormware Riga · Review Zering/Kee Tother · Interpret (37)		m	0
A DENA SITE / OTHER TOWN SUBED			2	SHITABILITY -	Swork TUS Pad NOWIGHT	ECRESI GAN	9HGLOTER(?) DV. S. TOR GARRES	s W	5
Planning	Townwide	-	5	Integrat hozard mitigator Le OSKP, Master Plan,	row/adaPatron/Resilvencevin Debris mylly Plan	the organy I force the	contra co	M	0
THE STATE OF THE S									
Environmental									
Water SUPPLY Carectly EPERMANY	Town. Wide	TOWN	V	Soe want bysten lovelege				m	0
OPEN SPECE	Town wide	Town, Auduban, State	V+5	Maintain existing o'Pen	SPau			W	0
Quating River 1	7"""		V+5	-Monter for invasion - Asses water goding		EVERONEN PENNIA		W	0
Control of the second									
							A CONTRACTOR OF THE PARTY OF TH		
		All the second s							

Community Resilience Building R			<b>1</b> (4)	BROOKFIELD  Top Priority Hazards	(tornado, floods, wildfire	www.Commur		1 2	The F
<b>d-M-</b> L priority for action over the Short or Long ter ∠ = Vulnerability S = Strength	3)		Drought, Wildfire,	Winter Storms		1	Priority Time		
	i fleat	(snow, wat, ile)	+ 100ding	Storm	H-M-L	Short Long			
Teatures Infrastructural	Location	Ownership	V 01 3					1	
fire fighting Storment / Highway	P. Carrier	CSX AGSS -	V 15	Course Coffing Longie m	WODATE BOUTHER	7		M	L
Drainage, Culvers	Rice Cover (DSS Faith Gay Rock ! SEE Map ! Moderal Rice Cover R. ! Grans !	TOWN	7			AND ANALYSIS  REPLACE/UPGRADE	(EXPASO (SEE MAD)	H .	5/0
water system flood Vulnerability	Quebosg Stiret -	TOWI-	·V	7 7 10	DITTO A	AMACYSIS/PLAN FOR - DUMANG/PLANE LINE - ALEA	Paule Lors BASKY	W	0
water System College / Private Well Users	Shalow wells	Town/kexol.	V	BARRYSIS / ENGINEERING	ANALYSIS 93K VS 100	*	*	M	0
Septic Sistems	Town wide	blace	V	MIGRORESTOPY 12 +		ADDUANCY OF TASKETS	HUDDIAN? LOWETHER	L	0
ow Mil Pold Dam	Can Road	Town	V			CAPPER EAP PU		H	5
Societal		The Title				zh		1 00	1, 1,
Flderly Tet: living at Home.	Town wide	Prine	V	The management of the second	At NEC- TARGET IN	0619-	->	m	1/0
Theory Religion in Mobile Parest to Watter Tystern Link)	Sauthers, Corndor	Prusik	V	(+ OAKUAN CANGETON?) EVALUATE PAENERS	- HIT (TAFT PERGAM)	103		L	L/C
Emergency medical services	Town Wide	Print	S	COMMUNICATION PURM and				16	0
Shelter facilities	School (Glorina), checks	TOWN	V	MORO FORTAL KAN/ FIN FAMILITES S-HILL MEDOS	HOLE HEAT WITH RE	SOCIAL PUTIECT		W	0
State Police	Town	State	S	MA		Market State		11	
Pura bog Street / Pare Lane Neighborhood —	7 1	Private	V	EVALUATE EVACORTIC	GA Z STUE - CAL - AMPLIACY VAN - GRA	NT CREMIN THELEVATE H	or Er	1 4	15
Environmental	THE P		-	FORSTEN HOLGENETT	TIS TO PENECE HAN A	POLKIAM		L	0
	OPENSPACE & TOWN POPERY	State owned/ Autubon/Town	Both	Rad a contour	Marian exists forsts Plan	Com Romaine Car		11	
Beauti Dams	Wolf Swamp		50		a bassassassassassassassassassassassassass	helf Swally		M	(11 (1)
Road Treatment	Town wide	Town owned+ State	S+V		threstype attendance Sect Parties + Cook			m	/H O
Invasive Posts + Plants	Town wide	MUHPLE	V	- Coordinat w/ Lak	is Continued Menterne + PU Association	BUE GLANGER FORCING			,
	Townwide	MUHIPE	VIS	- CONTINE to PID	nows for LID/Norm	Reseal Solutions		W	1

V

15 Post Road Prime

Wetlands

\$ Brown Fields

CONTINE to PIOTEST FOR LID/NAM Based Solutions

- Continue onyony work/ Plan

#### Community Resilience Building Risk Matrix



#### www.CommunityResilienceBuilding.org

#### **Top Priority Hazards**

(tornado, floods, wildfire, hurricanes, earthquake, drought, sea level rise, heat wave, etc.)

H-M-L priority for action over the Short or Long term (and Ungoing)

in the appropriety for action over the anort or bong to				Tilolity	Tillic				
<u>V</u> = Vulnerability <u>S</u> = Strength		T = = = =	1	Flooding	Winter Storms (snow, ice)	Droughts and Wildfire	Severe Storms	H-M-L	Short Long Ongoing
Features	Location	Ownership	V or S	V or S					<u>U</u> ngoing
Infrastructural									
Public and Private Water Supply	Town	Private and Public	V/S	Update	and expand water infrastructur	e and explore other water so	ources		
Municipal Buildings	Town	Public	S	Upgrade and install backup g					
Schools as Emergency Shelters	Town	Public	V/S		Expand backup gen	erator capacity			
Senior Housing Stock	Town	Public	V						
Roads	Quaboag Street, State owned N/S Evacuation Route, town wide roads	, Brookfield	V/S						
Bridges	Town	State and Brookfield		Maintair					
Power lines	Regional	National Grid	V/S	Promo					
Communications Infrastructure				Upgrade infrastructure such a					
Shelters and their Capacity Suitability	Elementary and High School								
Railroad tracks		CSX	V	Contin	ue to maintain a relationship an	d coordinate on addressing is	ssues		
Gas Supply	Route 9 and Town Center	Private	S		Continue existing	goperations			
Septic System Infrastructure, Reliability, and Performance	Town	Private, Brookfield, and State	V	Increase Board of Health and Building inspections and ensure that all systems are meeting Title 5 compliance through increased action on the part of a Title 5 coordinator.					
Bridges	Town wide and Water Road	Brookfield	V	Conduct an assessment of existing conditions and coordinate with MassDOT on addressing issues				L	0
Evacuation Routes and Plan	Route 9, Route 128, and Pine Lane	State and Brookfield	V/S	Revisit routes, vehicle	plan, and communication metho	ods with the Regional Transit	Agency and schools.	М	0
Mobile Home Water Systems	Mobile Home Communities	Private	V			Complete an engineering analysis and study of the existing water system infrastructure		М	0
Electric Wires and Street Trees	Town	National Grid	V			Continue to coordinate with National Grid on maintenance issues		Н	0
Municipal Buildings	Highway Garage and Well Pump	Brookfield	٧	Evaluate eme	rgency capabilities and install lig	thtening rods and emergency	y generators	Н	S

Roads	East Main Street	Brookfield	V	Continue to pursue rehabilitation program and improve drainage capabilities				М	0
Railroad tracks	Town	CSX	V	impore duninge capabilités		Coordinate to know what contaminates are passing through the town, develop a hazmat plan, improve drainage along the route, and communicate with the railroad regarding any fire hazard			0
Fire Fighting Capabilities	Town	Brookfield and CSX	V/S			Update equipment, continue to monitor woodland, and develop an emergency management plan		М	L
Drainage and Culverts	Rice Corner Cross Road, Gay Road, Molasses Hill Road, Rice Corner Road, and Green Street	Brookfield	٧	Complete an engineering inventory and analysis of all storm drains and culverts and replace, upgrade, and expand capacity as needed.			Complete an engineering inventory and analysis of all storm drains and culverts and replace, upgrade, and expand capacity as needed.	н	s/o
Water System Flood Vulnerability	Quaboag Street	Brookfield	>	Complete an analysis and pla power backup due to ice and fli and Pine L	ooding for the Quaboag Street		Complete an analysis and plan for future power loss and power backup due to ice and flooding for the Quaboag Street and Pine Lane Area	М	0
Water System Coverage, Private Well Users, and Shallow Wells	South of the Quaboag River and Locations of Shallow Wells	Brookfield and Private Owners	V	Complete an engineering anal water system i			Complete an engineering analysis and study of the existing water system infrastructure	М	0
Septic Systems	Town	Private Owners	٧	Upgrade and study the Housing Rehabilitation Program, zoning, permitting, and inspection procedures, and HUD funding		Upgrade and study the Housing Rehabilitation Program, zoning, permitting, and inspection procedures, and HUD funding		L	0
Saw Mill Road Dam	Lake Road	Brookfield	٧	Complete an Environmental Assessment and Protection Plan				Н	S
Societal									
Senior Population	Town		V						
Youth Population	Town		V						
Mobile Homes for Senior Housing	Town	Private	V V/S						
Targeted Faith-based Organizations Public Perception	Town Town	Private Public	V/S V		Increase community educ	ation and awareness			
Short Term Response	Town	Brookfield, Citizens, and Private Organizations	V/S		sease community Edde	and dwareness			
Familiarity with Brookfield	Town	Commuters and	V/S						
Communications Systems	Town	Residents		Increase public aware	ness for emergency preparedne	ess through systems such as r	phone notifications		
	rown		V	micrease public awarer	ness for emergency prepared ne		mone nouncadons		
Food Supply  Bedroom Community	Town		V		Education				

				-					
Reverse 911	Town	Brookfield	S		assess levels of use and outreach	continue to support usage and expand usage for evacuation planning		М	0
Land Use/ Storm water Regulations	Town	N/A	V	Review storm water regulations, review zoning regulations around the lake district, and incorporate Commercial Incentive District (CID) into the town's zoning code				М	0
Municipal Owned Sites	Town	Brookfield	S	Investigate water/well access consider an egress plan for the	and suitability, provide and co sites in the case of an emerger site as a shelter or a	ncy evacuation, and consider		М	S
Planning	Town	N/A	S	Integrate the town's Hazard	Mitigation, Adaptation, and Res	siliency Plans into ongoing an	nd future planning efforts.	М	0
Elderly Residents Living at Home	Town	Private Owners	V	Develor	a plan to target and assist the	se residents during an emerg	encv	М	L/O
Elderly Population in Mobile Home Parks	Southeast Corridor	Private Owners	V	2000		Evaluate the effectiveness of partnering with agencies best equipped to help vulnerable groups		L	L/O
Emergency Medical Services	Town	Private Owners	S			Ensure that all communication plans are available to the public		L	0
Shelter Facilities	Elementary School and Churches	Brookfield and Private Owners	V		Ensure that Brookfield has formal agreements within th facilities are equipped to hand emerge	e regional district and that dle all ages during all natural		М	0
Quaboag Street and Pine Lane Neighborhood	Quaboag Street	Private Owners	V	Evaluate evacuation procedures, continue outreach and education efforts, develop a flood water pumping plan, and pursue grant opportunities to protect houses in the area				н	S
Environmental									
Wildlife Management Areas	Town	Audubon Society, State, and Other	V/S						
Wetlands	Town		V/S		Enforce and expand zo	oning restrictions			
Lakes	Town		V/S						
Rivers	Town		V/S	Complete a comprehensive st	udy and assess invasive species	and flooding concerns of the	e Quaboag River and other		
Dams									
Invasive Species and pests	Town	5	V						
Septic System Infrastructure, Reliability, and Performance	Town	Private, Brookfield, and State	V	Increase Board of Health and I	Building inspections and ensure increased action on the part		Title 5 compliance through		
Tree Management	Town	Private, Brookfield, and State	V						
Invasive Vegetation, Weeds, Fish, and Wildlife	Quaboag Pond	State and Brookfield	V		Complete a comprehensiv	ve study on the issue			
Bear and Moose Wildlife	_	- 10.11		0 1:					
Water Supply Capacity and Permitting	Town	Brookfield	V	Complete an er	ngineering analysis and study of	trie existing water system in	rrastructure	M	0

Open Space	Town	Brookfield, Audubon Society, and State	V/S		Maintain the amount of	existing open space	М	0
Quaboag River	Town	N/A	V/S		Evaluate the river as it relates to evacuation planning	Monitor the river for invasive species, assess water quality	М	0
Forest Cover	Town	State, Audubon, and Brookfield	V/S	Develop a Forestry Management Plan	Maintain existing forestry plan		Н	0
Beaver Dams	Wolf Swamp		٧	Secure permitting for Wolf Swamp			Н	0
Road Treatment	Town	Brookfield and State	V/S		Investigate alternative best management practices and coordinate with East Brookfield		М/Н	0
Invasive Pests and Plants	Town	Public and Private Agencies	٧			Develop a management plan, continue to monitor, coordinate with the Lake Association, and pursue available funding to fight invasive species	М	0
Wetlands	Town	Public and Private Agencies	V/S	Continue to protect and examine opportunities for low impact development and nature based solutions			М	L
Brownfields	15 Post Road	Private Owners	٧			Continue ongoing work and plan on the property	Н	0