MEETING 1

***	coster mazar	u Kisk Assessment 2016						MEETING 1
			PLAN TABLE					11/7/2017
<b>Overall Risk Ranking of Haza</b>		of Hazards in Webster		RANK				
		<b>REVIEW &amp; UPDATE POTENTIAL HAZARD LOCATIONS</b>	RANK		Impact to	the Town		Ī
Nat	ural,	Susceptible (Existing) Hazard Locations in	Probability of	Human Injury	Critical Services	Property Damage	Severity of	Overall Risk
	hnological, and	the Town	Occurrence	Impact	and Infrastructure	Impact	Impact	
	nan Hazard		See scale below	See scale below	Impact See scale below	See scale below	Avg. of Human +	Relative Threat
		See also the Community and Critical Facility	1= Unlikely	1= Limited	1= Limited	1= Limited	Services +	RANKED 1-16
Eve	nts	Vulnerabilty Assessment (CCFVA) for specific		2= Significant	2= Significant	2= Significant	Property	TOTAL
		sites, addresses, phone numbers and primary	3= Likely	3= Critical	3= Critical	3= Critical	$\overline{}$	
	Floods and Flash	hazards. Floodplains of Blackwater River and the Flood	0 / - /	4= Catastrophic	•	4= Catastrophic		
Flooding	Floods	Control Area. Brooks such as Beaver Dam Brook, Deer Meadow Brook, Schoodac Brook, Pond Brook, Knight Meadow Brook result in expanded flooding. Pillsbury Lake, Lake Winnepocket, Walker Pond, Couch Pond, Knight Meadow Pond/Marsh, Walker Pond and several Farm Ponds can flood. Beaver dams can breach, resulting in localized flooding. Homes within the Flood Control Area are at risk. Runoff from roadways or heavy rain can cause floods over the Entire Town.  Bridges, drainage systems and areas of past, repaired, or existing potential for road washout:  Roads: Battle Street/ Route 127 (State roads & culverts), Roby Road, Corn Hill Road (Pond Brook), Deer Meadow Road (Deer Meadow Brook), Little Hill Road, Long Street (Beaver Dam Brook beaver dam/swamp), Mutton Road, Pillsbury Lake (dam breach — the Lake drained), Roby Road, Whiteplains Road (Schoodac Brook).  Bridges: Whiteplains Road Bridge, Clothespin Bridge, Pillsbury Lake Bridge (beaver dam)  Public/private facilities: Pillsbury Lake Water Precinct  Culverts: Deer Meadow Road, Mutton Road, Battle Street/ Route 127 (State)  Dams: Little Hill Road		1		1		1.0
Flooding	Rapid Snow Pack Melt	Snow melt runoff from impervious surfaces and roadways or from tree cover and fields can cause floods over the Entire Town. Particularly susceptible areas: flooding potential of the Blackwater River and Reservoir, Deer Meadow Road, the back side of New Hampshire Drive, and all roads in the floodplain are particularly susceptible. Other areas include the regular road washouts (see Flooding).  Blackwater River ice jams could endanger the dams					#DIV/0!	#DIV/0!
Flooding	Three rec sums	and have occurred in the past, especially near Clothespin Bridge Road, Battle Street, Tyler Road and east of Tyler Road.					#51070:	#DIV/0:
Flooding	Riverine Scouring, Erosion, Channel Movement	Because of the <b>Blackwater River</b> Flood Control Area, bank erosion, scouring and channel movement are not considered hazards of particular concern. Erosion of Clothespin Bridge Road south of Detour Road is one most likely to be affected by scouring.					#DIV/0!	#DIV/0!
Wind	Tornadoes	Entire Town. Areas of particular concern include high density populations such Blackwater Dam and its reservoir, the bridges in Town, the high population area of Pillsbury Lake, Cozy Pond Camping Resort, the Austin Home and the Elementary School. The entire Town is wooded and forested. Section of Town would be difficult to access with trees and power lines down on the residential roads. Most remote road/area of Town includes Little Hill Road. Dead end roads LIST					#DIV/0!	#DIV/0!

MEETING 1 11/7/2017

VV	ebster mazai	u Kisk Assessment 2018						MEETING 1
			<b>PLAN TABLE</b>					11/7/2017
Overall Risk Ranking of Hazards in Webster			RANK					
		REVIEW & UPDATE POTENTIAL HAZARD LOCATIONS	RANK		Impact to	the Town		Ī
	ural,	Susceptible (Existing) Hazard Locations in the Town	Probability of Occurrence	Human Injury Impact	Critical Services and Infrastructure	Property Damage Impact	Severity of Impact	Overall Risk
	nnological, and				Impact			
Hur	nan Hazard	See also the Community and Critical Facility	See scale below 1= Unlikely	See scale below 1= Limited	See scale below 1= Limited	See scale below 1= Limited	Avg. of Human + Services +	Relative Threat
Eve	nts	Vulnerabilty Assessment (CCFVA) for specific		2= Significant	2= Significant	2= Significant	Property	RANKED 1-16
		sites, addresses, phone numbers and primary		3= Critical	3= Critical	3= Critical	_	
		hazards.	4= Highly Likely	4= Catastrophic	4= Catastrophic	4= Catastrophic	$\overline{}$	
	Downbursts	Entire Town. Areas of particular concern include					#DIV/0!	#DIV/0!
		high density populations such Blackwater Dam and its reservoir, the bridges in Town, the high						
		population area of Pillsbury Lake, Cozy Pond						
-		Camping Resort, the Austin Home and the						
Wind		Elementary School. The entire Town is wooded and						
_		forested. Section of Town would be difficult to						
		access with trees and power lines down on the residential roads. Most remote road/area of Town						
		includes Little Hill Road. Dead end roads LIST						
		Agriculture farms LIST						
	Hurricanes and	Entire Town. Areas of particular concern include					#DIV/0!	#DIV/0!
	Tropical Storms	high density populations such Blackwater Dam and		ĺ				
		its reservoir, the bridges in Town, the high population area of Pillsbury Lake, Cozy Pond						
		Camping Resort, the Austin Home and the						
		Elementary School. The entire Town is wooded and						
		forested. Section of Town would be difficult to						
Wind		access with trees and power lines down on the						
Ņ		residential roads. Most remote road/area of Town includes Little Hill Road. Dead end roads LIST						
		Roadways (fallen trees), electrical						
		power utilities (Unitil & Eversource),						
		communications network, telecommunications						
		towers, local government operations are susceptible to damage by debris impacted infrastructure. See						
		also previously listed wind and flood vulnerability						
		sites.						
	Severe Winds, Rain	Entire Town. Areas of particular concern include					#DIV/0!	#DIV/0!
	Storms and Thunder Storms	high density populations such Blackwater Dam and						
	Storins	its reservoir, the bridges in Town, Pillsbury Lake Water Precinct, the high population area of Pillsbury						
		Lake, Cozy Pond Camping Resort, the Austin Home						
		and the Elementary School. Regularly flooded areas						
		need to be monitored. The entire Town is wooded						
		and forested. Section of Town would be difficult to access with trees and power lines down on the						
Wind		residential roads. Most remote road/area of Town						
3		includes Little Hill Road. Dead end roads LIST						
		Roadways (fallen trees), electrical						
		power utilities (Unitil & Eversource), communications network, telecommunications						
		towers, local government operations are susceptible						
		to damage by debris impacted infrastructure. See						
		also previously listed Wind and Flooding						
		susceptibility areas.						
	Lightning	Entire Town. Areas of concern are remote areas (see					#DIV/0!	#DIV/0!
		Wind) which could not be easily accessed by		ĺ				
		emergency vehicles. The two telecommunications		ĺ				
		towers (US Cellular at Dustin Road tower and AT&T at Pearson Hill tower) receive regularly lightning		ĺ				
		strikes. Other areas most susceptible include		ĺ				
ē		forested areas, conservation areas, open recreation		ĺ				
Fire		fields, points of higher elevation than surrounding						
		area. Buildings without lightning rods would be		ĺ				
		more susceptible to damage from a strike. Other susceptible structures include aboveground utilities:		ĺ				
		transformers, water towers, churches and tall						
		buildings.		ĺ				

MEETING 1 11/7/2017

**	costel Hazai	u Kisk Assessment 2016	DI ANI TARI F	1				MEETING 1
0	wall Bisk Banking	of Hanands in Maketon	PLAN TABLE		R/	ANK		11/7/2017
Overall Risk Ranking of Hazards in Webster  REVIEW & UPDATE POTENTIAL HAZARD LOCATIONS		RANK					-	
Nat	ural	Susceptible (Existing) Hazard Locations in	Probability of	Human Injury	Critical Services	Property Damage	Severity of	Overall Risk
	ural, hnological, and	the Town	Occurrence	Impact	and Infrastructure Impact		Impact	Overall Risk
Hur Eve	nan Hazard nts	See also the Community and Critical Facility Vulnerabilty Assessment (CCFVA) for specific sites, addresses, phone numbers and primary hazards.	1= Unlikely 2= Possible 3= Likely	See scale below 1= Limited 2= Significant 3= Critical 4= Catastrophic	See scale below 1= Limited 2= Significant 3= Critical	See scale below 1= Limited 2= Significant 3= Critical 4= Catastrophic	Avg. of Human + Services + Property	Relative Threa
Fire	Wildfire	Entire Town (forested). Areas of concern are Pillsbury Lake, high density residential areas, along a stretch of the Blackwater River spanning from Route 127 to Clothespin Bridge Road, high tension power lines with dense scrub underneath running through the Deer Meadow Road area, dry slash throughout Town, and remote areas (see Wind) which could not be easily accessed by emergency vehicles. Other areas most susceptible include forested areas, conservation areas, open recreation fields, old historic buildings.					#DIV/0!	#DIV/0!
Extreme Temperature	Severe Winter Weather, Wind Chill and Ice Storms	Entire Town. Areas of particular concern include Elementary School, individual elderly residences, the high population area of Pillsbury Lake, Cozy Pond Camping Resort, the Austin Home. Roadways (fallen trees), electrical power utilities (Unitil & Eversource), powerlines/cable/internet, two telecommunications towers (US Cellular at Dustin Road tower and AT&T at Pearson Hill tower) communications network, local government operations are susceptible to damage. Webster's dispersed residential population, located in wooded and forested sections of Town are vulnerable to loss of power and debris on roads. Most remote road/area of Town includes Little Hill Road. Other sections of Town would be difficult to access with trees and power lines down on these residential roads. People may be subject to cold temperature, snow isolation, transportation accidents, power failure and communications failure during winter storm events. A voluntary "welfare check" list is available for people to sign up at the Town Office.					#DIV/0!	#DIV/0!
Extreme Temperature	Drought	Entire Town / Region. Areas susceptible include farms and orchards: 1 dairy farm [NAME], but many households keep farm animals. Also vulnerable are those residences with private dug wells and Town water supplies (Pillsbury Lake Water Precinct). Drought means increased risk of brush fire with dry vegetation (see Wildfire for areas). Gravel roads affected because can't grade them when water is low. All fire ponds will be low or dry during drought times. Higher elevations and ledgy locations tend to run dry first.					#DIV/0!	#DIV/0!
Extreme Temperature	Excessive Heat	Entire Town. Areas of particular concern include Elementary School, individual elderly residences, the high population area of Pillsbury Lake, Cozy Pond Camping Resort, the Austin Home. Vulnerable areas most susceptible to extreme heat include farms, orchards The EOC can be opened as a cooling centers during extended heat conditions.					#DIV/0!	#DIV/0!
Earth	Earthquake	Entire Town. The Central NH Region is seismically active and earthquakes are regularly felt from area epicenters. Site of greatest concern is the Blackwater Dam. Damage to utility poles and wires, roadways and infrastructure (dams, water lines, bridges) could be significant. Areas with underground utilities, Pillsbury Lake Water Precinct, old buildings, and the Elementary School are particuarly susceptible.					#DIV/0!	#DIV/0!

PLAN TABLE MEETING 1
11/7/2017

Ove	erall Risk Ranking	of Hazards in Webster	PLAN TABLE		RA	INK		11///201/
REVIEW & UPDATE POTENTIAL HAZARD LOCATIONS		RANK	Impact to the Town				Ī	
	ural, hnological, and	Susceptible (Existing) Hazard Locations in the Town	Probability of Occurrence	Human Injury Impact	Critical Services	Property Damage Impact	Severity of Impact	Overall Risk
Human Hazard Events		See also the Community and Critical Facility Vulnerabilty Assessment (CCFVA) for specific sites, addresses, phone numbers and primary	3= Likely	See scale below 1= Limited 2= Significant 3= Critical 4= Catastrophic	See scale below 1= Limited 2= Significant 3= Critical	See scale below 1= Limited 2= Significant 3= Critical 4= Catastrophic	Avg. of Human + Services + Property	Relative Threat RANKED 1-16
Earth	Landslide	hazards.  Development in proximity to areas of steep slopes (greater than 15%) is at risk for these events. Roads with steep ditching or embankments are most vulnerable to landslide include White Plains Road, Detour Road by Pleasant Street, and many others alongside roadways.	4- rigilly Likely	4- Catastropine	4- Catastropine	4- Catastropine	#DIV/0!	#DIV/0!
Technological Hazards	Dam Failure	High Hazard (H) dam is the Blackwater Dam (H) and 3 Low Hazard (L) dams are the Pillsbury Lake Dam, Willipocket Lake Dam and Knight Meadow Pond Dam (L), but beaver dams have a high probability of flooding and potential to break.					#DIV/0!	#DIV/0!
Technological Hazards (often secondary hazards)	Power/Utility Failure	Entire Town. Areas of particular concern include Elementary School, individual elderly residences, the high population area of Pillsbury Lake, Cozy Pond Camping Resort, the Austin Home, Pillsbury Lake Water Precinct. Wooded, forested and more remote sections of Town would be difficult to access, with trees and power lines down on these routes or residential roads (see Wind). Webster depends on power from Eversource and Unitil. Power outages may last for several days before service is restored in a large event. Isolated areas of Town are particularly vulnerable to outages and the resulting effects. A voluntary "welfare check" list is available for people to sign up at the Town Office.		not rated	not rated	not rated	not rated	not rated
Technological Hazards (often secondary hazards)	Communications Systems Failure	Entire Town. Two telecommunications towers (US Cellular at Dustin Road tower and AT&T at Pearson Hill tower), telephone, Verizon Wireless, and electrical lines (Unitil & Eversource). Communications are detailed in the Community Vulnerability Assessment tables. Communications failure would be worse if it occurred at the Fire and Police Depts, Highway Department or Town Offices, especially during a holiday, or inhibited emergency dispatch and EOC operations. Most Town radios are interoperable, and they are used in more than one location. The Town is serviced by the Capital Area Mutual Aid Compact, which does all the emergency medical service and Fire dispatching. They have redundant capabilities. Satellite communication is available for the Army Corps of Engineers at the Blackwater Dam.	not rated	not rated	not rated	not rated	not rated	not rated
Technological Hazards (often secondary hazards)		Most dams and bridges could experience debris impacted infrastructure, including the Battle Street bridge over the Blackwater River, Clothespin Bridge Road over the Blackwater River, and the two bridges on Tyler Road over the Blackwater River. If the log boom, which holds back the logs, breaks, debris could clog the Blackwater Dam. Box culverts as replacements for failing culverts have been recently installed in many Webster roads as a result of recurring flooding events. Debris impacted infrastructure includes blocked roadways (trees & powerlines).	not rated	not rated	not rated	not rated	not rated	not rated
Technologi	Transportation Accidents	Main highway through Town is Battle Street/Route 127. Intersections with NH 127 can be dangerous. See Map series for regular accident locations - at certain intersections, curves, straightaways, hills.	not rated	not rated	not rated	not rated	not rated	not rated
<u>v</u>	Hazardous and Radiological Materials Spills	NH 127/Battle Street would be the most realistic routes taken where vehicular traffic transports hazardous waste. The largest or most dangerous stationary sites that store and/or handle haz mat on site (fertilizer, pesticides, fuel, etc) are listed in Appendix A. Occupational haz mat sites where spills could occur include: health care facilities, schools, manufacturing, etc.	not rated	not rated	not rated	not rated	not rated	not rated

## Webster Hazard Risk Assessment 2018

PLAN TABLE 11/7/201

Ove	erall Risk Ranking	of Hazards in Webster	PLAN TABLE		R.A	ANK		11/7/2017
Overall Risk Ranking of Hazards in Webste		REVIEW & UPDATE POTENTIAL HAZARD LOCATIONS	RANK	Impact to the Town				1
Natural, Technological, and Human Hazard Events		Susceptible (Existing) Hazard Locations in the Town	ons in Probability of Occurrence	Human Injury Critical Services Property Damage Services			Severity of Impact	Overall Risk
		See also the Community and Critical Facility Vulnerabilty Assessment (CCFVA) for specific sites, addresses, phone numbers and primary hazards.	2= Possible 3= Likely	See scale below 1= Limited 2= Significant 3= Critical 4= Catastrophic	See scale below 1= Limited 2= Significant 3= Critical	See scale below 1= Limited 2= Significant 3= Critical 4= Catastrophic	Avg. of Human + Services + Property	Relative Threat RANKED 1-16
Human	Public Health Epidemic	Congregate populations. Webster Elementary School, Austin Home, populated areas, large employers, senior housing, stores and public assembly venues listed in Appendix A - all of these locations increase the risk of exposure to and transfer of illness. The forests, conservation areas, agriculture, wooded areas, ponds can host ticks (Lyme) and mosquitos (West Nile, EEE, etc).	not rated	not rated	not rated	not rated	not rated	not rated
Human	Fire (Vehicle, Structure, Arson)	Entire Town. Areas most susceptible include: above ground fuel tanks on farms, including Drown, Rose Logging, and Mock; underground storage tanks, Eversource high tension power lines running over auto salvage yards; Mutton Road, LIttle Hill Road, Deer Meadow Road areas miles away from fire ponds; vacant buildings, foreclosed homes or seasonal buildings; or buildings in densly populated areas. Vehicle fires could occur anywhere, parking lots, driveways, roadways. Above ground LP storage tanks can also pose a potential hazard.	not rated	not rated	not rated	not rated	not rated	not rated
Human	Terrorism	Unlikely, but possible anywhere in Entire Town. Most susceptible sites could include: Town Office, School, churches, Library, Blackwater Dam, Pillsbury Lake Water Precinct, Public Safety Buildings, Eversource high tension power lines, Post Office, all other governmental facilities or state facilities, political offices or rallies, churches, the two telecommunications towers (US Cellular at Dustin Road tower and AT&T at Pearson Hill tower), businesses with large quantities of hazardous materials like Roberts Greenhouse & Cloverdale Feeds, grocery or convenience stores, restaurants.	not rated	not rated	not rated	not rated	not rated	not rated
Human	Sabotage/Vandalism	Town or Governmental Facilities. Sabotage would be most likely to occur at electric utilities, Town Offices (computer systems & website), Town buildings, Blackwater Dams, Pillsbury Lake Water District, other water supplies, cemeteries, vacant buildings, beaver dams, under bridges.	not rated	not rated	not rated	not rated	not rated	not rated
Human	Hostage Situation	Unlikely, isolated events. Locations where hostages could be taken include: Town Offices and other public buildings, School, Post Office, workplaces, grocery and convenience stores, restaurants, high density population areas, public events, and domestic home situations.	not rated	not rated	not rated	not rated	not rated	not rated
Human	Civil Disturbance/ Public Unrest	Unlikely, limited events. Locations where civil disturbance could occur: Town Offices, Pillsbury Lake Community Center, Elementary School, stores, restaurants, establishments serving alcohol, high density population areas. Occasions include: Town Meetings, voting day, local board meetings, during visits from political candidates, large events such as Old Home Day, Veteran's Parade, School sports events, Blackwater Canoeing event.  REVIEW & UPDATE POTENTIAL HAZARD LOCATIONS		not rated	not rated	not rated	not rated	not rated

NHHSEM's State Multi-Hazard Mitigation Plan 2013 also contains Snow Avalanche and Coastal Flooding. Neither of these are pertinent to the Town. Radon is no longer considered a hazard in NH's Plan and therefore was not included in this local Plan.

16 Ranked Hazards (of 27) in Hazard Risk Analysis 2018

HIGHEST RANKING HAZARDS ♦ RANK x -:

## Webster Hazard Risk Assessment 2018 MEETING 1 **PLAN TABLE** 11/7/2017 RANK Overall Risk Ranking of Hazards in Webster **REVIEW & UPDATE POTENTIAL HAZARD LOCATIONS** RANK Impact to the Town Human Injury Critical Services **Property Damage** Natural, Susceptible (Existing) Hazard Locations in Probability of Severity of **Overall Risk** and Infrastructure Impact Impact the Town Occurrence **Impact** Technological, and mpact **Human Hazard** See scale below See scale belov See scale below See scale below Avg. of Human + **Relative Threat** See also the Community and Critical Facility Services + Property 1= Limited 1= Limited 1= Limited 1= Unlikely RANKED 1-16 **Events** 2= Significant Vulnerabilty Assessment (CCFVA) for specific 2= Significant 2= Significant 2= Possible 3= Critical 3= Critical 3= Critical sites, addresses, phone numbers and primary 3= Likely 4= Highly Likely 4= Catastrophic 4= Catastrophic 4= Catastrophic

## Probability of Occurrence

1	Unlikely=	0 - 25% chance	in 10 years
2	Possible=	25 - 50% chance	in 10 years
3	Likely=	<b>51 - 75%</b> chance	in 10 years
4	Highly Likely=	<b>76 - 100%</b> chance	in 10 years

hazards.

	Impact to the Town		
1	Limited=		<ul> <li>♦ Injuries treatable with first aid.</li> <li>♦ Minor "quality of life" disturbance, shutdown for 3 days or less.</li> <li>♦ Less than 10%.</li> </ul>
2	Significant=	Human: Critical Facilities/Services/Infrastructure: Property Damage:	<ul> <li>◆ Significant injuries or illnesses result in no permanent disability.</li> <li>◆ Shutdown for up to 2 weeks.</li> <li>◆ 10% to 25%.</li> </ul>
3	Critical=	Human: Critical Facilities/Services/Infrastructure: Property Damage:	<ul> <li>◆ Significant injuries or illnesses result in permanent disability.</li> <li>◆ Complete shutdown for at least 2 weeks.</li> <li>◆ 25% to 50%.</li> </ul>
4	Catastrophic=	Critical Facilities/Services/Infrastructure:	<ul> <li>◆ Death or multiple deaths.</li> <li>◆ Complete shutdown for 30 days or more.</li> <li>◆ Greater than 50%.</li> </ul>