

Town of Dover Climate Smart Communities Certification Project
Review of Plans, Policies and Procedures Using CSRP Checklist

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2	Section 1: Community Plan Checklist	Yes	No	Adoption Year	Update Frequency	Notes
3	1.1 Municipal Master Plan	x		1993		update being completed in 2018
4	1.2 Zoning Ordinance	x				Chapter 145 in Town Code, update being completed in 2018 as part of the comprehensive plan update
5	1.3 Subdivision Ordinance	x				Chapter 125, in Town Code, update being completed in 2018 as part of the comprehensive plan update
6	1.4 Open Space Plan	x	x			Chapter 88, Greenway Connections addresses some aspects
7	1.5 Natural Resource Conservation Plan	x				Natural Resource Inventory - updated by Hudsonia in 2018
8	1.6 Stormwater Management Plan		x			
9	1.7 Coastal Plan or Element in Other Plan		x			
10	1.8 Shoreline Restoration Plan		x			
11	1.9 Coastal Erosion Hazard Area Ordinance		x			
12	1.10 Multi-Hazard Mitigation Plan	x		2010/2016	2020	Dutchess County Document with a Town of Dover Annex updated in February 2016
13	1.11 Floodplain Management Plan		x			
14	1.12 Flood Damage Prevention Ordinance	x		2012		Chapter 81 in Town Code, updated in 2012
15	1.13 Evacuation Plan		x			
16	1.14 Emergency Response & Short-term Recovery Plan	x				Chapter 15 in Town Code addresses Emergency Preparedness
17	1.15 Continuity of Operations Plan		x			Check with the County
18	1.16 Disaster Recovery Plan		x			Check with the County
19	1.17 Long-term Recovery Plan		x			Check with the County
20	1.18 Economic Development Plan/Strategy	x				Regional Document - Think Dutchess
21	1.19 Capital Improvements Plan		x			
22	1.20 Metropolitan Transportation Plan		x			

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23	1.21 Historic Preservation Plan		X			
24	1.22 Local Waterfront Revitalization Plan		X			
25	1.23 Climate Action Plan - Government Greenhouse Gas Emissions Inventory	X				Currently in the works through CSC Grant - completed in 2018
26	1.24 Other: Centers and Greenspaces	X				This is a County/Regional Document/Initiative
27	1.25 Other: Flood Insurance Study, Dutchess County	X		2012		

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1	Section 2: Vulnerability & Risk Assessments	Yes	No	Other	Notes	Definitions	References
2	2.1 Does the municipality have a localized hazard risk and vulnerability assessment?	x			All Hazards Mitigation Plan Project aka Dutchess County Natural Hazard Mitigation Plan, 2010 and updated 2015		
3	2.2 Have current and future climate hazards been identified?	x			Atmospheric hazards including extreme temp, wind, hurricanes, tropical storms, lightning, nor'easters, tornadoes, and winter storms; Hydrologic hazards including dam failure, drought, flooding, storm surge, wave action; geologic hazards including earthquakes and landslides; and other hazards such as wildfire.	Climate hazards include higher temperatures, heavy precipitation, sea-level rise, storm surge & flooding, disruption of natural resource life cycles and a variety of human health risks.	Impacts of climate change
4	2.3 Have potential risks been prioritized as follows?						
5	2.3.1 Likelihood of a given effect, e.g. virtually certain/already occurring, high, moderate, low	x			Hazards were identified, described in detail, historical occurrences described, and probability of future occurrences identified		Table 2.2 in Natural Hazard Mitigation Plan as well as Section 3a Risk Assessment which describes hazard profiles in detail
6	2.3.2 Magnitude of consequence, e.g., disruption of internal operations, capital and operating costs, number of people affected, public health, economy, and environment.	x			Some details are provided for each hazard but specifics (ie - cost estimates, # of people affected, etc.) are only given for certain hazards due to insufficient data.		Section 3c - Estimated Damages in Hazard Areas
7	2.3.3 Are conditions identified that could amplify the effect of a hazard, e.g. storm surge innodation at a high tide or erosion of stabilized shorelines?			x	Risk Assessment for each Hazard is thorough. If certain conditions could amplify the effects of a hazard then it is clearly detailed. The Town of Dover is not susceptible to storm surge innodation since it is not tidal. Erosion of shorelines could be a problem if stream velocity increases due to high rainfall/snow melt.		
8	2.4 Have municipal employees utilized any of the following vulnerability assessment modalities?						
9	2.4.1 HAZUS-MH	x				HAZUS-MH - a tool developed by FEMA to help communities estimate potential losses from natural disasters.	HAZUS-MH
10	2.4.2 Other:				unknown - we should find out if Town of Dover is utilizing a different tool to help their community estimate losses		
11	2.5 Are municipal employees trained in the use of FEMA's HAZUS-MH?		x		County Mitigation Plan references HAZUS-MH. Identify if town employees are trained...		
12	2.6 Have adaptation strategies been identified and categorized as follows:						
13	2.6.1 Type		x				
14	2.6.2 Administration		x				
15	2.6.3 Condition		x				
16	2.6.4 Timing		x				
17	2.6.5 Geography		x				
18	2.7 Have adaptation strategies been evaluated and prioritized as follows:						
19	2.7.1 Strategy cost		x				
20	2.7.2 Strategy feasibility		x				
21	2.7.3 Timing of Implementation		x				
22	2.7.4 Efficacy		x				
23	2.7.5 Co-benefits		x				
24	2.8 Have stakeholders linked adaptation strategies to the capital budget and rehabilitation cycles?		x		but this should be considered strongly in future planning		

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25	2.9 Are maps used to spatially define the following vulnerabilities in relationship to risks?						
26	2.9.1 Populations, e.g., elderly, children, poor, disabled		x		work with County GIS department to create maps		
27	2.9.2 Buildings, e.g., business and residential		x				
28	2.9.3 Infrastructure, e.g. roads, schools, wastewater treatment facilities, hospitals, public works, power plants, drinking water treatment facilities		x				
29	2.9.4 Natural resources, e.g. wetlands, critical habitats, rare species, dunes, beaches, bluffs		x				
30	2.9.5 Cultural resources, e.g., historic districts, properties, and landmarks, libraries, museums, recreational areas		x				
31	2.10 Have the following been identified as climate risks to the community?						
32	2.10.1 Extreme precipitation and riverine flooding	x					
33	2.10.2 Landslides		x				
34	2.10.3 Sea-level rise		x				
35	2.10.4 Coastal storms, storm surge, and coastal flooding		x				
36	2.10.5 Extreme temperatures and heat waves	x					
37	2.10.6 High winds	x					
38	2.10.7 Heavy snow and/or ice storms	x					
39	2.11 Are municipal planners and emergency managers trained in the use of the following risk-mapping tools?						
40	2.11.1 Flood insurance rate maps	x			Are planners and managers trained in using the maps?	Flood Insurance Rate Maps, or FIRMs, are official maps produced by FEMA that identify areas at risk of flooding, as well as National Flood Insurance risk premium zones in a community.	FIRMs
41	2.11.2 Sea, Lake and Overland Surges from hurricanes		x		The Town of Dover is not susceptible to surges from Hurricanes	Storm Surge is an abnormal rise of water generated by a storm, often a hurricane.	SLOSH
42	2.11.3 Shoreline change analysis		x		The Town of Dover is not susceptible to shoreline changes because it is not located on the shoreline.	Shoreline changes through erosion or accretion can be analyzed in geographic information system (GIS).	NOAA Shoreline website
43	2.11.4 Cumulative risk assessments			x	Ask appropriate municipal officials - MJ said good to have but may not be available; FEMA/USGS is completing flood study watershed study for the entire Housatonic - is it in NY as well as Ct and MA? See if you can find out.	A tool to assist communities in understanding the aggregation of risks from multiple environmental stressors.	USEPA Cumulative Risk Assessment Framework
44	2.11.5 Sea level rise inundation maps		x			Mapping tools to help communities visualize impacts from coastal flooding and sea-level rise.	NOAA Sea Level Rise Viewer
45	2.11.6 Other:						
46	2.12 Have vulnerability and risk assessments been directly shared with municipal planners, public work officials, transportation planners, and other appropriate municipal, county or state officials?			x	Ask appropriate municipal, county, state officials as well as employees if vulnerability and risk assessments have been shared with them.		
47	2.13 Has inland (riverine) flooding been identified as a hazard in this community? If yes, complete the following:	x					
48	2.13.1 Are emergency managers and planners aware of potential riverine flooding extents in the community?			x	ask appropriate managers and planners		

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49	2.13.2 Are local planners, emergency managers and public works officials aware of the location of riverine repetitive loss properties?			x	ask appropriate managers and planners		
50	2.13.3 Does the community track riverine repetitive loss properties within the National Flood Insurance Program ?		x		according to the updated Hazard Mitigation Plan, the town of Dover does not maintain an inventory of properties with the NFIP. Donn Andersen is the Building Inspector and NFIP Floodplain Administrator (Look at Section 9.7-8 in hazard mitigation plan, Updated Hazard Mitigation Plan (2016) lists Hazard Event History with a summary of damages/losses	National Flood Insurance Program, or NFIP, a federally-subsidized insurance program aimed at reducing the impact of flooding on private and public structures.	NFIP
51	2.13.4 Do any plans or reports describe the damage and cost of previous storms, riverine floods, or erosion?	x			Updated Hazard Mitigation Plan (2016) lists Hazard Risk/Vulnerability Risk Rating for potential hazards for the Town of Dover		
52	2.13.5 Do any plans or reports estimate future financial losses that may result from riverine flooding?	x					
53	2.14 Have sea-level rise, coastal storms, storm surge and coastal flooding been identified as hazards? If so, answer the following:		x				
54	2.14.1 Are emergency managers and planners aware of potential coastal flooding extents in the community?			n/a			
55	2.14.2 Are local planners, emergency managers and public works officials aware of the location of coastal repetitive loss properties?			n/a			
56	2.14.3 Does the community track riverine coastal loss properties within the National Flood Insurance Program?			n/a			
57	2.14.4 Do any plans or reports describe the damage and cost of previous coastal storms, floods, or erosion?			n/a			
58	2.14.5 Is a significant part of the community in a V-zone or A-zone as defined on a FEMA flood insurance rate map?			x	A- zones; need to determine if A-zones are a significant part of the community. Look at maps and determine %. Does town understand the vulnerability when it comes to flooding?		
59	2.14.6 Does the community contain lands within the Coastal Erosion Hazard Area ?		x			shoreline areas that are vulnerable to erosion, and are identified in maps produced by NYS DEC. Coastal Erosion Hazard Areas are regulated and permits are required for construction and other activities.	NYS DEC Coastal Erosion Hazard Management Program
60	2.14.7 Have areas of the coastline most prone to erosion hazards been identified?			n/a			
61	2.14.8 Has the community used all available authorities to restrict or prohibit any activities, development or other actions in such erosion hazard areas, in order to minimize damage to property, and to prevent the exacerbation of erosion hazards?			n/a			
62	2.14.9 Has the community developed a build-out analysis using existing zoning ordinances? If so, answer the following:			n/a			
63	2.14.9.1 Has the build-out analysis been compared to the extent of storm surge scenarios?			n/a			
64	2.14.9.2 Has the build-out analysis been compared to projected sea-level rise scenarios?			n/a			
65	2.14.10 Do any plans or reports describe the damage and cost of previous coastal storms, floods, or erosion?			n/a			
66	2.14.11 Are emergency managers and planners aware of potential storm-surge heights in the community?			n/a			

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67	2.14.12 Do any plans or reports estimate future financial losses that may result from sea-level rise?			n/a			
68	2.14.13 Has the community undertaken a vulnerability and risk assessments using the Department of State Asset Inventory Worksheet and Risk Assessment Tool?			n/a			Governor's Office of Storm Recovery
69	2.14.14 Has the community adopted the projections of sea-level rise from the State Sea Level Rise Task Force report or more recent studies for planning purposes?			n/a		NYS has adopted official sea-level rise projections.	NYS DEC Official SLR Projections NYS Sea Level Rise Task Force Report
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1	Section 3: Public Outreach and Engagement	Yes	No	Notes	Definitions	References
2	3.1 Has the public been involved in the identification of historic storm effects, such as storm-surge elevations, flood-prone streets, beach erosion and overwash, or property loss through any of the following means?					
3	3.1.1 Participatory mapping		x	Doublecheck with the town regarding public outreach. HVA did have a public comment period when completing road/stream crossing surveys but no comments were received.	Participatory mapping is a process in which stakeholders create maps that indicate important environmental, cultural social and economic features. Often used in land use decision-making.	NOAA Participatory Mapping Guide
4	3.1.2 Public surveys		x			
5	3.1.3 Stakeholder meetings		x			
6	3.2 Does the municipality have publicly visible high water mark signs ?		x	Doublecheck with the town	High Water Mark signs are a public awareness tool that indicate how high the water reached on a building, bridge or other infrastructure under flood conditions.	NOAA High Water Mark signs
7	3.3 Has the public been involved in defining an overall acceptable level of natural-hazard risk?		x	Doublecheck with the town		
8	3.4 Does the municipality provide the public with information on the natural and beneficial functions of floodplains, wetlands and green infrastructure?	x	x	Doublecheck with the town		
9	3.5 Does the municipality provide access to floodplain maps?	x	x	Doublecheck with the town		
10	3.6 Does the municipality publicize the availability of floodplain information to property owners and businesses?	x	x	Doublecheck with the town		
11	3.7 Does the municipality publicize the availability of floodplain information to insurance agents, real estate agents, and lenders?	x	x	Doublecheck with the town		
12	3.8 Does the municipality conduct storm-preparedness outreach to floodplain residents and businesses using the following methods?					
13	3.8.1 Website	x		identify what is on website and in brochures/newsletter and what kinds of information is distributed		
14	3.8.2 Brochures and newsletters	x				
15	3.8.3 Community meetings		x			

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16	3.8.4 Television or radio	x		local radio stations distribute PSA information when necessary		
17	3.8.5 Other:			should consider social media such as FB and twitter to inform residents about storm-preparedness		
18	3.9 Does the community provide easy access to coastal erosion area hazard maps?		n/a			
19	3.10 Does the community provide residents with guidance on the development of personal or family evacuation plans?	x	x	on town website with links to external sites such as https://www.ready.gov/ and https://www.fema.gov/ ; more local and specialized info could be developed and promoted to the community		
20	3.11 Does the municipality provide property owners information on what to include in the following?					
21	3.11.1 At-home emergency kit					
22	3.11.2 Emergency supplies					
23	3.11.3 Evacuation kit					
24	3.12 Does the community have public-information plans in place to provide residents with the following information prior to the threat of a storm?					
25	3.12.1 Expected inundation areas		x			
26	3.12.2 Evacuation routes		x			
27	3.12.3 Evacuation bus pick-up locations		x			
28	3.12.4 Location of severe weather shelters		x			
29	3.12.5 Location of pet shelters		x			
30	3.13 Has the community informed residents of ASPCA's disaster preparedness steps for domesticated animals?		x		Tips for including pets in your family's disaster preparedness efforts.	ASPCA Disaster Preparedness
31	3.14 Has the community informed residents of FEMA's "Are You Ready?" Guide?	x		a link is on the town website		FEMA "Are You Ready?" Guide
32	3.15 Does the community actively inform property owners of FEMA suggested means to protect their homes against storm and wind damage?		x	a link to https://www.fema.gov/ is on the town website.		FEMA Guidance on Protecting Homes from Storms
33	3.16 Does the municipality provide the public with flood mitigation information?		x	ask the town but hazard mitigation plan is on town website		
34	3.17 Does the municipality refer home builders to FEMA's coastal construction manual?		n/a	Dover is not in a coastal area		FEMA Guidance on Coastal Construction
35	3.18 Does the municipality employ multilingual and culturally sensitive approaches while providing residents with essential information?		x			

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1	Section 4: Integration of Municipal Plans	Yes	No	Notes	Definitions	References
2	4.1 Has the community adopted a comprehensive plan?	x		currently being updated; HVA staff attended a comp plan meeting on 12/11/18 to offer recommendations to include in the revision to improve climate resiliency and reduce hazard vulnerability		
3	4.1.1 Does the comprehensive plan reference the local multi-hazard mitigation plan and disaster recovery plans?		x	not specifically - included in recommendations		
4	4.1.2 Does the comprehensive plan explain the support and involvement of emergency managers, floodplain managers, coastal managers and public works officials?		x			
5	4.1.3 Does the planning process documentation describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information, e.g., the multi-hazard mitigation plan, capital improvement plan?	x				
6	4.1.4 Did the preparation of the comprehensive plan involve a broad base of the community, such as public officials, civic organizations, businesses, and citizens?	x		Comprehensive Plan committee is made up of community volunteers and town staff		
7	4.1.5 Does the comprehensive plan provide a clear explanation of participation techniques used in its development?	x				
8	4.1.6 Does the comprehensive plan identify resilience within its mission, vision, or goals?		x	not specifically - included in recommendations		
9	4.1.7 Are hazards addressed among the elements of the municipal master plan?		x			
10	4.1.8 Does the plan identify potential coastal-hazard effects on infrastructure, land uses, housing and community facilities?		x	not applicable to the town of dover because it is not located in a coastal hazard area		
11	4.1.9 Does the plan make recommendations to reduce hazard vulnerability through land-use planning?		x	not specifically - included in recommendations		
12	4.1.10 Does the plan identify how often it should be updated?	x		Plan should be updated every 5-10 years		
13	4.1.11 Does the comprehensive plan identify flood-prone areas and discourage development in those areas or require strategies to reduce flood damage to buildings?	x		Land Protection Action Items reference flood-prone areas and regulating uses in 100 year floodplain		
14	4.1.12 Does the comprehensive plan encourage using green infrastructure techniques to help prevent flooding?		x	included in recommendations		
15	4.1.13 Does the comprehensive plan emphasize non-structural pre-disaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations?		x	included in recommendations		

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16	4.1.14 Does the comprehensive plan or hazard mitigation plan discuss strategies to determine whether to relocate structures that have been repeatedly flooded, including identifying an equitable approach for community involvement in relocation decisions and potential funding sources?		x	Hazard mitigation plan identifies flood prone structures and potential losses to critical facilities. It does not discuss relocation of them.		
17	4.2 Is the community planning for development (e.g. parks, river-based recreation) along the river's edge that will help connect people to the river AND accommodate water during floods?	x	x	sort of. Included in recommendations		
18	4.2.1 Are floodways and other frequently flooded areas zoned for open space or recreation?	x	x	included in recommendations		
19	4.2.2 Does the community use subdivision regulations to ensure low densities within the floodplain?	x	x	included in recommendations		
20	4.2.3 Have non-conforming use and structure standards been revised to encourage safer rebuilding in flood-prone areas?		x			
21	4.2.4 Do zoning or floodplain regulations require elevation of two or more feet above Base Flood Elevation?		x	The Town of Dover requires the minimum required elevations		
22	4.2.5 Has the community adopted the International Building Code or American Society of Civil Engineers (ASCE) standards that promote flood-resistant building?		x			
23	4.2.6 Does the community plan for costs associated with the follow-up inspection and enforcement of land development regulations and building codes?		x			
24	4.2.7 Does the local comprehensive plan or hazard mitigation plan clearly identify safer growth areas in the community?		x	not specifically - included in recommendations		
25	4.2.8 Has the community adopted policies to encourage development in these areas?		x	not specifically - included in recommendations		
26	4.2.9 Has the community planned for new development in safer areas to ensure that it is compact, walkable and has a variety of uses?		x	included in recommendations		
27	4.2.9.1 Has the community changed its land-use codes and regulations to allow for this type of development?		x	included in recommendations		
28	4.2.9.2 Have land development regulations been audited to ensure that development in safer areas meets the community's needs for off-street parking requirements, building height and density, front yard setbacks and that these regulations do not unintentionally inhibit development in these areas?		x			
29	4.2.9.3 Do capital improvement plans and budgets support development in preferred safer growth areas (e.g., through investment in wastewater treatment facilities and roads)?		x			

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30	4.2.9.4 Have building codes been upgraded to promote more flood-resistant building in safer locations?		x			
31	4.3 Has the community adopted the concepts of No Adverse Impact of the Association of State Floodplain Managers?		x	dover is not considered a coastal community	No Adverse Impact , or NAI, is a floodplain management approach recommended by the Association of State Floodplain Managers that aims to help coastal communities achieve disaster resilience. "NAI is an approach by which the action of any community or property owner, public or private, is not allowed to adversely affect coastal resources or the property rights of others."	NAI Handbook
32	4.3.1 Does the community have a local ordinance to protect dunes, bluffs or eroding cliffs from development or disturbance?		x			
33	4.3.2 Does the community have a local ordinance to protect wetlands?		x	No ordinance specific to wetland protection. Town has a Stream Corridor Protection Ordinance that has a 100 foot setback from any watercourse.		
34	4.4 Does the community have an open space or other natural resources management plan?		x	The Town of Dover has a Flood Damage Prevention Ordinance adopted in 2017 that promotes the public health, safety, and general welfare and to minimize public and private losses due to flood conditions in specific areas.		
35	4.4.1 If so, does the plan identify floodplain management as a priority?		x	not in a specific plan but Chapter 81 in town code deals with Flood Damage Prevention		
36	4.4.2 Is actively managed open space maintained in a manner that provides flood protection?		x			
37	4.4.3 Is the plan adopted as part of the municipal comprehensive plan?		x			
38	4.4.4 Is the local open space plan updated in coordination with the state open space plan ?		x	No local open space plan.		NYS Open Space Plan
39	4.4.5 Does the community participate in the state open space plan updates?		x	Doublecheck		
40	4.5 Does the municipality have a FEMA-approved multi-hazard mitigation plan ?	x		county document with a town specific appendix	FEMA Hazard Mitigation Plan , or HMP, formalizes community efforts to reduce loss of life and property from natural disasters. A FEMA-approved HMP is a condition for receiving certain types of non-emergency disaster assistance.	FEMA Hazard Mitigation Planning

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41	4.5.1 Does the multi-hazard mitigation plan cross-reference with the local comprehensive plan?	x	x			
42	4.5.2 Was a certified floodplain manager included in the hazard-mitigation planning process?	x		Doublecheck but I suspect someone at the regional level is a CFM.		
43	4.5.3 Does the multi-hazard mitigation plan describe the support and involvement of local government departments and offices?	x				
44	4.5.4 Does the multi-hazard mitigation plan provide a clear explanation of public participation used during its development?	x		Doublecheck		
45	4.5.5 Does the multi-hazard mitigation plan identify critical facilities and infrastructure that are located in vulnerable areas and should be protected, repaired or relocated (e.g., town facilities, bridges, roads, and wastewater facilities)?	x				
46	4.5.6 Does the multi-hazard mitigation plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?	x				
47	4.5.7 Does the multi-hazard mitigation plan describe past mitigation efforts e.g., shoreline stabilization and land acquisition, along with their costs and effectiveness?	x				
48	4.5.8 Does the multi-hazard mitigation plan provide a general explanation of the environmental, social and economic consequences of failing to address natural hazards?	x				
49	4.5.9 Does the multi-hazard mitigation plan include municipal maps that indicate local hazard risks, such as flood zones, storm-surge inundation and erosion rates?		x	opportunity to improve by creating maps		
50	4.5.10 Does the plan consider inland riverine erosion as a hazard?		x			
51	4.5.11 Does the plan identify shoreline erosion as a hazard?		x			
52	4.5.12 Does the plan identify sea-level rise enhanced storm surges as hazards?		x			
53	4.5.12.1 Are zoned land uses compatible with coastal hazards?		n/a			
54	4.5.13 Does the plan identify landslides as a hazard?	x				
55	4.5.14 Does the multi-hazard mitigation plan consider high winds and tornadoes as hazards?	x				
56	4.5.15 Does the plan identify drought as a hazard?	x				
57	4.5.15.1 Does the plan identify specific conservation measures for acknowledged drought thresholds?		x			
58	4.5.16 Does the plan identify extreme temperatures and heat waves as hazards?	x				

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59	4.5.17 Does the plan identify heavy snowfall as a hazard?	x				
60	4.5.18 Does the plan identify tropical storms, hurricanes and Nor'easters as hazards?	x				
61	4.5.19. Does the plan address transportation and other needs of particularly vulnerable populations, such as homeless, low income, elderly, special needs and disabled?		x			
62	4.5.20. Does the plan specify timelines for completing projects and achieving goals?	x		Identifies some projects		
63	4.5.20.1 Do mitigation goals correspond with measurable mitigation objectives?	x				
64	4.5.21 Is a process for intergovernmental coordination explained for mitigating natural hazards?	x		hazard mitigation plan is a county wide document with a local town appendix		
65	4.5.22 Does the plan identify critical facilities and infrastructure that are located in vulnerable areas and should be protected, repaired or relocated?	x				
66	4.5.23 Have neighboring local governments been consulted to coordinate disaster responses and hazard-mitigation strategies?	x		hazard mitigation plan is a county wide document with a local town appendix		
67	4.5.24 Does the plan identify opportunities to incorporate hazard mitigation into existing planning mechanisms, e.g., land-use planning, capital investments, shoreline restoration projects?	x				
68	4.5.25 Does the multi-hazard mitigation plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-4.5.25. Does the multi-hazard mitigation plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?	x				
69	4.6 Does the municipality have an adopted floodplain management plan?		x	Chapter 81 in Town Code discusses Flood Damage Prevention but not a specific plan		
70	4.6.1 Is it incorporated as an element of the comprehensive plan?		x			
71	4.6.2 Is the floodplain plan incorporated in the open space plan?		x			
72	4.6.3 Is it incorporated in the stormwater management plan?		x			
73	4.6.4 Is it incorporated in the multi-hazard mitigation plan?		x			

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74	4.6.5 Does the municipality have a certified floodplain manager on staff?		x	I do not believe that the building inspector, Donn Andersen, is a CFM. Doublecheck with Donn.	Certified Floodplain Manager , or CFM, is a program of the Association of State Floodplain Managers that recognizes continuing education and professional development of floodplain management professionals.	CFM Program Information
75	4.6.6 Was a certified floodplain manager included in the planning process?	x				
76	4.6.7 Was a licensed professional planner included in the planning process?	x				
77	4.6.8 Does the municipality participate in the National Flood Insurance Program ?		x			NFIP
78	4.6.9 Does the municipality have a flood damage prevention ordinance?	x		Chapter 81 in Town Code, Flood Damage Prevention		
79	4.7 Does the municipality have a stormwater management plan		x			NYS Stormwater Management Design Manual
80	4.7.1 Was a certified floodplain manager included in the planning process?		n/a			
81	4.7.2 Does the stormwater management plan include green infrastructure and low-impact development regulations to decrease runoff, e.g., tree protection ordinances, impervious cover limits, riparian buffers, vegetated drainage channels and cluster development?		n/a			
82	4.7.3 Does the plan identify runoff and drainage problems due to impervious surfaces?		n/a			
83	4.7.4 Has the community implemented strategies to reduce storm water runoff from roads, driveways, and parking lots?		n/a			
84	4.7.5 Does the plan identify constraints if the municipality reaches impervious coverage levels allowed by land-use and zoning designations?		n/a			
85	4.7.6 Has the community coordinated with neighboring jurisdictions to explore a watershed-wide approach to storm water management?	x		The Town of Dover is a member of the Ten Mile River Watershed Collaborative that meets regularly to discuss water management issues. The TMR Collaborative has received funding to begin a watershed management plan for the TMR watershed.		
86	4.7.7 Do storm water management regulations apply to areas beyond those that are regulated by federal or state storm water regulations?		x			

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87	4.7.8 Does the plan describe the municipal responsibilities for inspection and maintenance of stormwater facilities?		n/a			
88	4.7.9 Has the community developed a storm water utility to serve as a funding source for storm water management activities?		x			
89	4.7.10 Does the plan identify how often it should be updated?		n/a			
90	4.8 Does the community have a capital improvements plan?		x			
91	4.8.1 Were a licensed professional planner, engineer, and certified floodplain manager involved in the planning process?		n/a			
92	4.8.2 Does the plan consider the risk of flooding and coastal hazards and sea level rise when upgrading existing municipal infrastructure?		n/a			
93	4.8.3 Does the capital improvement plan consider the risk of flooding and coastal hazards and sea-level rise on proposed infrastructure projects?		n/a			
94	4.8.4 Does the capital improvement plan incorporate projections of flooding and sea-level rise into risk assessments over the expected service life of municipal infrastructure?		n/a			
95	4.8.5 Does the plan incorporate, if appropriate, existing plans, studies, reports, and technical information?		n/a			
96	4.8.6 Does the plan identify how often it should be updated?		n/a			
97	4.9 Does the municipality have an economic development plan or strategy?		x			
98	4.9.1 Does the plan identify economic vulnerabilities due to coastal hazards?		n/a			
99	4.9.2 Does the plan incorporate sea level rise and other climate change effects into its assessment of economic vulnerabilities?		n/a			
100	4.10 Does the community have a local waterfront revitalization plan , special area management plan, beachfront management plan or shoreline management plan?	x		The Town of Dover has applied for a LWRP grant in partnership with the Ten Mile River Watershed Collaborative to create a watershed management plan for the entire Ten Mile River watershed.	Local waterfront revitalization plan , or LWRP, is a plan devised by a community for preferred and accepted land uses on their waterfront. This program is supported by NYS Department of State.	LWRP
101	4.10.1 Do these plans identify the threat of coastal storms and erosion?		x			
102	4.10.2 Do these plans identify the threat of sea level rise and other climate related hazards?		x			
103	4.10.3 Do these plans identify the vulnerability of wildlife and habitat to coastal hazards?		x			
104	4.11 Has the municipality developed a coastal resilience plan?		x			

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105	4.11.1 Has the municipality strived to reduce vulnerability in coastal zones through non-structural measures wherever possible?		n/a			
106	4.11.2 Have areas of significant public investment, water dependent uses and critical infrastructure that require structural protection because options for relocation, elevation or employment of non-structural measures are not feasible been identified?		n/a			

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1	Section 5: Disaster Preparedness and Recovery	Yes	No	Notes	Definitions	References
2	5.1 Is the municipality recognized as a Storm Ready Community ?		x		Storm Ready is a program offered through the National Weather Service to help communities to take a proactive approach to preparing for extreme weather and natural disasters.	https://www.weather.gov/stormready/
3	5.2 Does the community have a general emergency warning system?		x	Inform residents about NY-ALERT - New Yorkers can subscribe for NY-Alert to receive critical information and emergency alerts on what is happening in their area. NY-Alert contains critical, emergency-related information including instructions and recommendations in real-time by emergency personnel. Information may include severe weather warnings, significant highway closures, hazardous material spills and other emergency conditions.		
4	5.3 If the community is located along a river, does it have an early flood-warning system?		x	All areas of New York State are included in the system, and you can decide which area you would like to receive alerts about.		
5	5.4 Are emergency responders aware of real-time ocean and estuarine observing systems and stream gauging information?		x	Signing up is free, and messages can be received by phone, email, text and fax.		
6	5.5 Does the community relay weather related threats to the public in at least two forms of communication?		x			
7	5.6 Does the community have an emergency response and short-term recovery plan and/or a flood response plan that includes coastal flooding?	x		Emergency Action Plan, Chapter 15 of Dover Town Code		
8	5.6.1 Does the plan describe a hierarchy of authority during emergencies?	x		Chapter 15, Section 2		
9	5.6.2 Does the plan identify first responders?		x	Chapter 15 of Town Code identifies Emergency Operations Center (EOC) staff		
10	5.6.3 Does the plan include a list of contacts for operators of municipal facilities?	x				
11	5.6.4 Is the plan a municipal plan (rather than county or state)?	x		The natural hazard mitigation plan is a county document with a Town of Dover Annex		
12	5.6.5 Does the plan indicate the required update frequency?	x		Every 5 years		
13	5.6.6 Does the plan include steps for emergency protective measures e.g., sandbagging, erecting warning devices, and search and rescue?		x			

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14	5.6.7 Does the plan include organizational framework to conduct a preliminary damage assessment?	x		Chapter 15, Emergency Preparedness		
15	5.6.8 Are the best available projections concerning the frequency and severity of extreme storm events incorporated into the municipality's emergency response/operations plan?		x			
16	5.6.9 Does the emergency response/operations plan include coordination and communication among critical stakeholders such as community-based organizations, local businesses, local health departments, utilities and local government leaders?	x				
17	5.7 Does the community have a designated emergency operations center?	x		JH Ketcham Fire Company Unit One is designated the EOC with Unit 2 as the alternate		
18	5.7.1 Is it located outside of flood-hazard areas?	x				
19	5.7.2 Is it designed to withstand high winds?	x				
20	5.7.3 Does it have elevated back-up power?	x		Doublecheck with Town. Town Hall has a back up generator		
21	5.8 Does the community have adequate designated storm shelters?		x	Not detailed in Plan; doublecheck with Town to see if they have a designated storm shelter.		
22	5.8.1 If the community does not have a designated storm shelter within the community, is there an established memorandum of agreement with a neighboring community or county to provide constituents shelter?		n/a			
23	5.8.2 Are storm shelters located outside flood-hazard areas, including storm-surge inundation areas?		n/a			
24	5.8.3 Are storm shelters designed to withstand high-wind effects?		n/a			
25	5.9 Does the community have an evacuation plan?		x			
26	5.9.1 Are responsibilities for municipal evacuation clearly defined?		x			
27	5.9.2 Does the plan identify the necessary time frame to evacuate residents and vacationers from storm-hazard areas?		x			
28	5.9.3 Does the plan identify where evacuation routes are prone to flooding?		x			
29	5.9.4 Is there more than one route identified to evacuate the community?		x			
30	5.9.5 Does the evacuation plan consider the possibility of evacuation of neighboring jurisdictions occurring concurrently?		x			

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31	5.9.6 Does the evacuation plan identify and provide for groups that rely on public transportation (or lack private vehicles) for emergency evacuations?		x			
32	5.9.7 Does the plan identify the conditions that would initiate a traffic lane reversal?		x			
33	5.9.8 Does the plan identify local and state evacuation assistance programs for the following special needs?		x			
34	5.9.8.1 Hospitals		x			
35	5.9.8.2 Nursing Homes		x			
36	5.9.8.3 Prisons		x			
37	5.9.8.4 Residents without personal transportation		x			
38	5.9.8.5 Elderly		x			
39	5.9.8.6 Disabled		x			
40	5.9.8.7 Schools		x			
41	5.10 Does the community maintain and promote a special needs registry?		x			
42	5.11 Does the municipality inform residents of the NY-Alert program?		x		NY-Alert is a service offered by NYS to alert citizens of hazards and emergencies via email or telephone. https://www.nyalert.gov/	
43	5.12 Does the municipality have a volunteer community emergency response team?		x	The Town of Dover has a Emergency Operations Center (EOC) and associated town staff who are responsible for implementation.	Community emergency response teams, or CERT is a program offered by FEMA to train volunteers in basic response skills so that they can assist others in their communities following a disaster when professional emergency responders are not immediately available to help. https://www.fema.gov/community-emergency-response-teams	
44	5.13 Does the community have a portable communications system that can operate under poor weather conditions and when electrical power is not available?		x			
45	5.14 Is there an adequate heat-warning system in place?		x			
46	5.15 Is a cooling-center program established that considers potential problems such as transportation obstacles, effects of power outages or flooding and other needs of vulnerable populations/communities?		x			
47	5.16 Does the community have a continuity of operations plan?		x			
48	5.16.1 Does the plan provide guidance on post-disaster waste management and debris removal?		n/a			

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49	5.16.1.1 Is machinery for debris removal located outside of flood hazard areas?	x				
50	5.16.1.2 Are routes to waste-disposal facilities passable in the event of a flood?		x			
51	5.16.1.3 Are temporary waste-disposal staging areas identified in the event of a disaster?		x			
52	5.17 In the event of a disaster, are procedures defined to conduct habitability and substantial damage assessments?		x			
53	5.18 Does the community store FEMA elevation certificates outside of flood-hazard areas?	x	x	Doublecheck with Town.	FEMA elevation certificates provide documentation that buildings located in Special Flood Hazard Areas are properly elevated. Elevation certificates can be used by the property owner to obtain flood insurance.	https://www.fema.gov/elevation-certificate
54	5.19 Does the community have a long-term recovery plan ?		x		A long-term recovery plan provides guidelines on steps the community will take to re-establish a pre-disaster condition or better, and enable to community to sustain itself.	http://www.dhSES.ny.gov/planning/comp/documents/NYS-CEMP-Vol.3-Long-Term-Recovery-2017.pdf
55	5.19.1 Does the plan identify redevelopment opportunities outside of flood-hazard areas?		n/a			
56	5.19.2 Does the plan advocate the use of advisory flood maps to define post-disaster redevelopment building elevations?		n/a			
57	5.19.3 Does the plan identify opportunities to retrofit or relocate existing structures or infrastructure in hazard-prone areas?		n/a			
58	5.19.4 Does the plan utilize risk and vulnerability mapping to determine the location of future development?		n/a			
59	5.19.5 Has the community identified the lines of coordination in transitioning from short-term to long-term recovery?		n/a			
60	5.19.6 Does the plan include an organizational framework that facilitates the effective coordination and use of state, federal, and NGOs resources in a manner that provides maximum benefit for the disaster area?		n/a			

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61	5.19.7 Does the plan identify roles and functions of elected and appointed officials, state and federal agencies, and NGOs?		n/a			
62	5.19.8 Does the recovery plan include provisions to reduce greenhouse gas emissions from reconstructed areas through improved energy efficiency, use of renewable sources of energy and application of smart-growth principles?		n/a			
63	5.20 Has the community adopted floodplain development limits that prohibit or reduce any new encroachment and fill in river corridors and fluvial erosion hazard areas?		x			
64	5.21 Has the community encouraged agricultural and other landowners to implement pre-disaster mitigation measures, such as the following?					
65	5.21.1 Storing hay bales and equipment in areas less likely to be flooded?		x			
66	5.21.2 Installing ponds or swales to capture storm water?		x			
67	5.21.3 Planting vegetation that can tolerate inundation?		x			
68	5.21.4 Using land management practices to improve the capability of the soil on their lands to retain water?		x			
69	5.21.5 Have long-term recovery plans been developed for areas vulnerable to flooding and coastal storms?		x			
70	5.22 Does the local government have the authority to establish a temporary post-disaster building moratorium?	x				

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1	Section 6 – Hazard Mitigation Implementation	Yes	No	Notes	Definitions	References
2	6.1 Has the municipality taken the Climate Smart Communities Pledge ?	x			Climate Smart Communities is a network of NY communities engaged in reducing greenhouse gas emissions and improving climate resilience.	http://www.dec.ny.gov/energy/50845.html
3	6.2 Has the municipality created a local Climate Action Plan ?		x	The Town of Dover has completed a municipal Green House Gas Emissions Inventory	A Climate Action Plan describes the policies and measures that a local government will enact to reduce greenhouse gas emissions and increase the community's resilience to climate change.	http://www.dec.ny.gov/energy/67101.html
4	6.3 Is the municipality active in the National Flood Insurance Program's Community Rating System ?		x		The FEMA Community Rating System is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceeds the minimum National Flood Insurance requirements.	https://www.fema.gov/national-flood-insurance-program-community-rating-system
5	6.4 Has the municipality proposed the relocation of public buildings, critical facilities, or infrastructure out of flood hazard areas as a result of the multi-hazard mitigation plan or other planning tools?		x			
6	6.5 Has the municipality used its multi-hazard mitigation plan to propose retrofitting public buildings, critical facilities and other infrastructure to withstand flood damage?		x			
7	6.6 Do municipal building codes exceed the state's 2-foot freeboard above base flood elevation requirement?					
8	6.7 Have building and permitting officials completed training on retrofitting flood-prone residential buildings?		x		Training on retrofitting floodprone buildings is available through FEMA.	https://training.fema.gov/emiacourses/crsdetail.aspx?cid=E279&ctype=R
9	6.8 Have building and permitting officials completed training in FEMA's Coastal Construction Manual ?		n/a		Training on Residential Coastal Construction is available through FEMA.	Coastal Construction Manual
10	6.9 Have community officials completed post-flood stream intervention training?		x			
11	6.10 Does the community provide property owners with guidelines to retrofit existing development for flood and wind risks?		x			
12	6.11 Does the municipality utilize any of the following tools to manage development in hazard-prone areas?					
13	6.11.1 Transfer of development rights or purchase of development rights	x				
14	6.11.2 Conservation overlay districts or cluster development		x			

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15	6.11.3 Zoning for open or recreational space		x			
16	6.11.4 Protective coastal, riparian and/or wetland buffer ordinances		x			
17	6.11.5 Rolling easements		x			
18	6.11.6 Buyouts of vulnerable properties		x			
19	6.11.7 Other:					
20	6.12 Does the municipality use land-acquisition programs to purchase land-conservation easements in hazard-prone areas?			they would like to but have not been successful		
21	6.13 Does the community utilize impact fees, accommodation taxes or user fees to acquire properties in hazard areas?		x			
22	6.14 Does the municipality have a plan for shoreline stabilization ?		x		Shoreline stabilization - protecting or restoring natural shorelines have many ecological and resilience benefits.	http://www.dec.ny.gov/permits/50534.html
23	6.15 Is the automatic replacement of hardened structures prohibited?		x			
24	6.16 Are sustainable enhanced methods of shoreline protection encouraged through incentives or regulation?		x			
25	6.17 Does the community inform property owners of preferred sustainable shoreline protection techniques, including non-structural and ecologically enhanced methods?		x			
26	6.18 Does the municipality have a plan in place to control invasive plant species, especially near the shoreline?		x			
27	6.19 Does the community engage in dune, wetland or shoreline restoration?		x			
28	6.20 Has the community established special area ordinances for habitat preservation?			check ordinances		
29	6.21 Does the community utilize impact fees, accommodation taxes or user fees to pay for shoreline protection and restoration, wetland restoration or riparian buffers?		x			
30	6.22 Are community flood control or other protective structures (e.g., levees, flood or sea walls) inspections on schedule?			I don't know - double check		
31	6.23 Has the community used any of the following grant programs to implement mitigation projects?			Doublecheck		

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32	6.23.1 FEMA Hazard Mitigation Grant Program		x		The purpose of the FEMA Hazard Mitigation Grant Program is to help communities implement hazard mitigation measures following a Presidential major disaster declaration.	https://www.fema.gov/hazard-mitigation-grant-program
33	6.23.2 FEMA Pre-disaster Mitigation Grant Program		x		The FEMA Pre-disaster Mitigation Grant Program is designed to assist States, U.S. Territories, Federally-recognized tribes, and local communities in implementing a sustained pre-disaster natural hazard mitigation program.	https://www.fema.gov/pre-disaster-mitigation-grant-program
34	6.23.3 FEMA Flood Mitigation Assistance Program		x		The FEMA Flood Mitigation Assistance Grant Program provides resources to assist states, tribal governments, territories and local communities in their efforts to reduce or eliminate the risk of repetitive flood damage to buildings and structures insurable under the National Flood Insurance Program.	https://www.fema.gov/media-library-data/1455710459301-048a67862580037b30cd640a802a9053/FY16_FMA_Fact_Sheet.pdf
35	6.23.4 HUD Community Development Block Grants		x		The Community Development Block Grant, or CDBG, program provides annual grants on a formula basis to 1209 general units of local government and States.	https://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/communitydevelopment/programs
36	6.23.5 Other:					