

ResilientCoasts

DRAFT PLAN

APPENDIX III

Near-term Adaptation Areas by Coastal Resilience District



May 2025

Near-Term Adaptation Areas by District

The maps in this appendix depict the Near-Term Adaptation Areas in Chapter 6 by the Coastal Resilience Districts in Chapter 5. The purpose of providing the information at this scale is to inform district-level coastal resilience planning and prioritization.

Coastal Resilience Districts

The ResilientCoasts Plan establishes 15 Coastal Resilience Districts (CRDs) statewide. CRDs are areas along the Massachusetts coastline with current or future coastal hazard risk. They are delineated based on common characteristics that can help facilitate coastal resilience planning, prioritization, and project implementation across municipalities.

The inland extent of the districts is guided by the Massachusetts Coast Flood Risk Model (MC-FRM) projected flood extent for the 0.1% annual chance storm event in the 2070s based on a sea level rise scenario of 4.3 feet above the 2008 baseline.

CRDs have some areas of higher elevation within them that are not directly exposed to flooding based on the MC-FRM projections for the 2070s 0.1% annual chance storm event. Although these areas will not face direct flood risks, they will likely encounter ingress and egress challenges related to evacuation and isolation during major coastal flood events. The boundaries of the CRDs are intended to portray long-term coastal hazard risk and therefore exclude these “evacuation and isolation risk areas.” However, they are nonetheless important to consider when devising district-scale strategies for coastal resilience. For more information, see Appendix I.

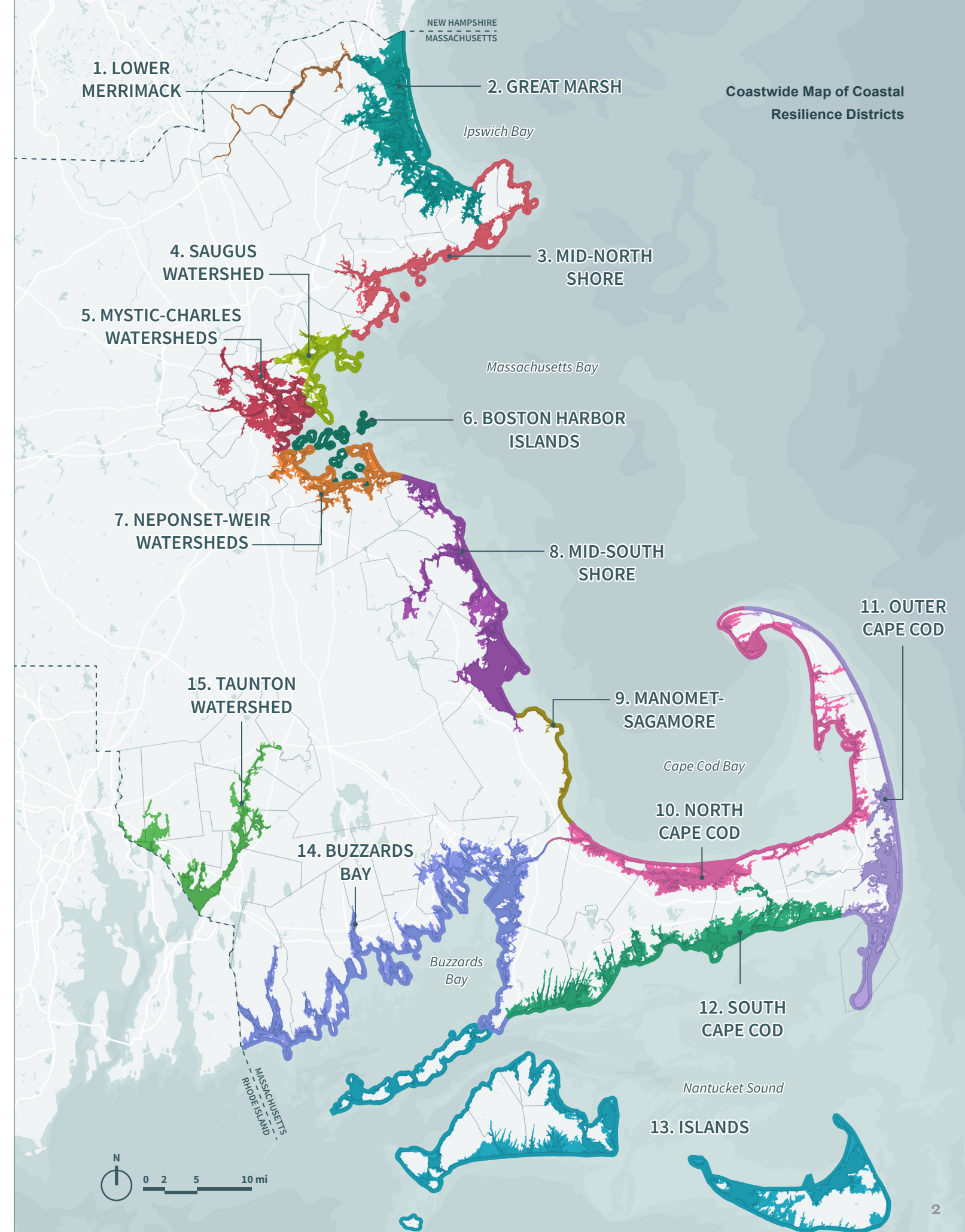
Near-Term Adaptation Areas

Near-Term Adaptation Areas are places on the coast that have near-term coastal flood risk. They are categorized according to the concentration of people and housing, built infrastructure, and economic resources at risk. To identify these areas, ResilientCoasts relies on the MC-FRM project flood extent for the 1% annual chance storm event in the 2030s based on a sea level rise scenario of 1.3 feet above the 2008 baseline. For more information, see Appendix II.

Because they are more narrowly focused, Near-Term Adaptation Areas cover a smaller area than the CRD boundaries. The purpose of mapping Near-Term Adaptation Areas is to inform coastwide and district-level priorities for coastal resilience.

The following maps depict Near-Term Adaptation Areas by CRD, including sector-based maps for people and housing, built infrastructure, and economic resources. The Boston Harbor Islands CRD is omitted from these district-level maps because there is relatively no year-round population on the islands and relatively little built infrastructure or economic resources at risk.

Cross-sector maps by CRD are also included, which depict the Near-Term Adaptation Areas categorized as having a **Very High Concentration** of vulnerability across one or more of the three sectors. Note that the Manomet-Sagamore CRD did not have any Near-Term Adaptation Areas that were categorized as Very High Concentration of vulnerability and thus the cross-sector map for that CRD is blank. For more information, see Appendix II.

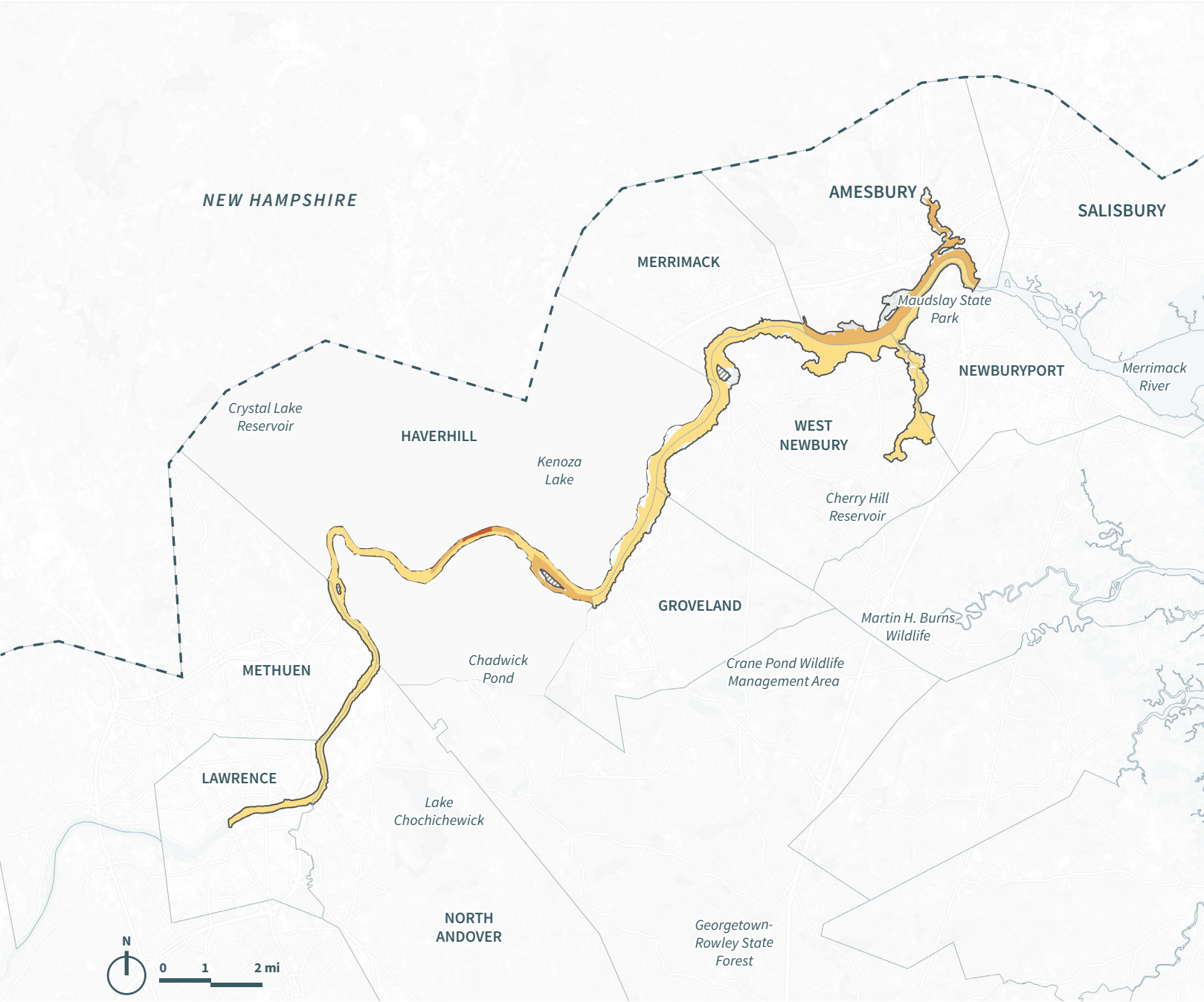
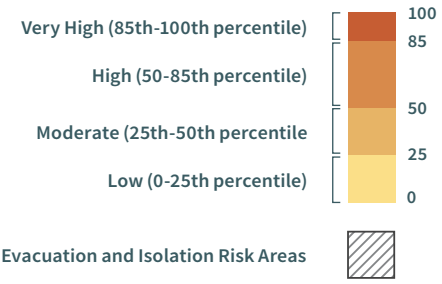


DISTRICT 01

Lower Merrimack

People & Housing

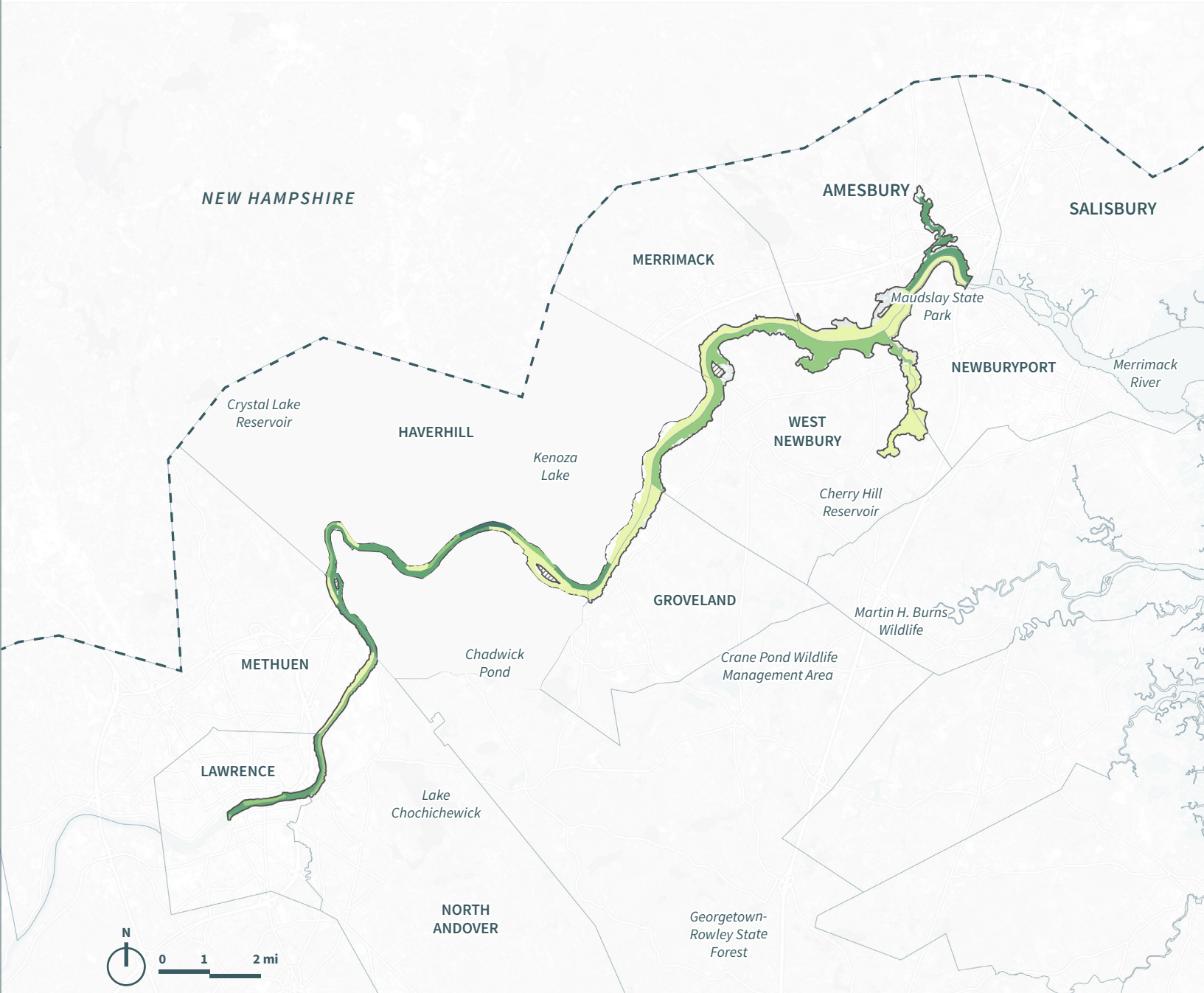
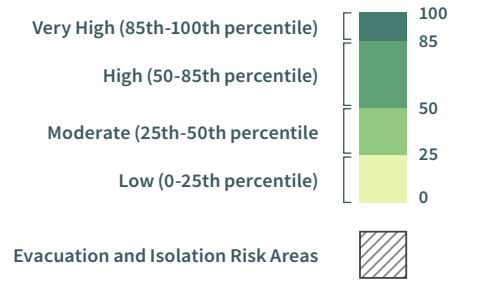
Concentration of Vulnerability (Percentiles):



Map 1: Relative Concentration of Near-Term Vulnerability of People & Housing in the Lower Merrimack district.

Built Infrastructure

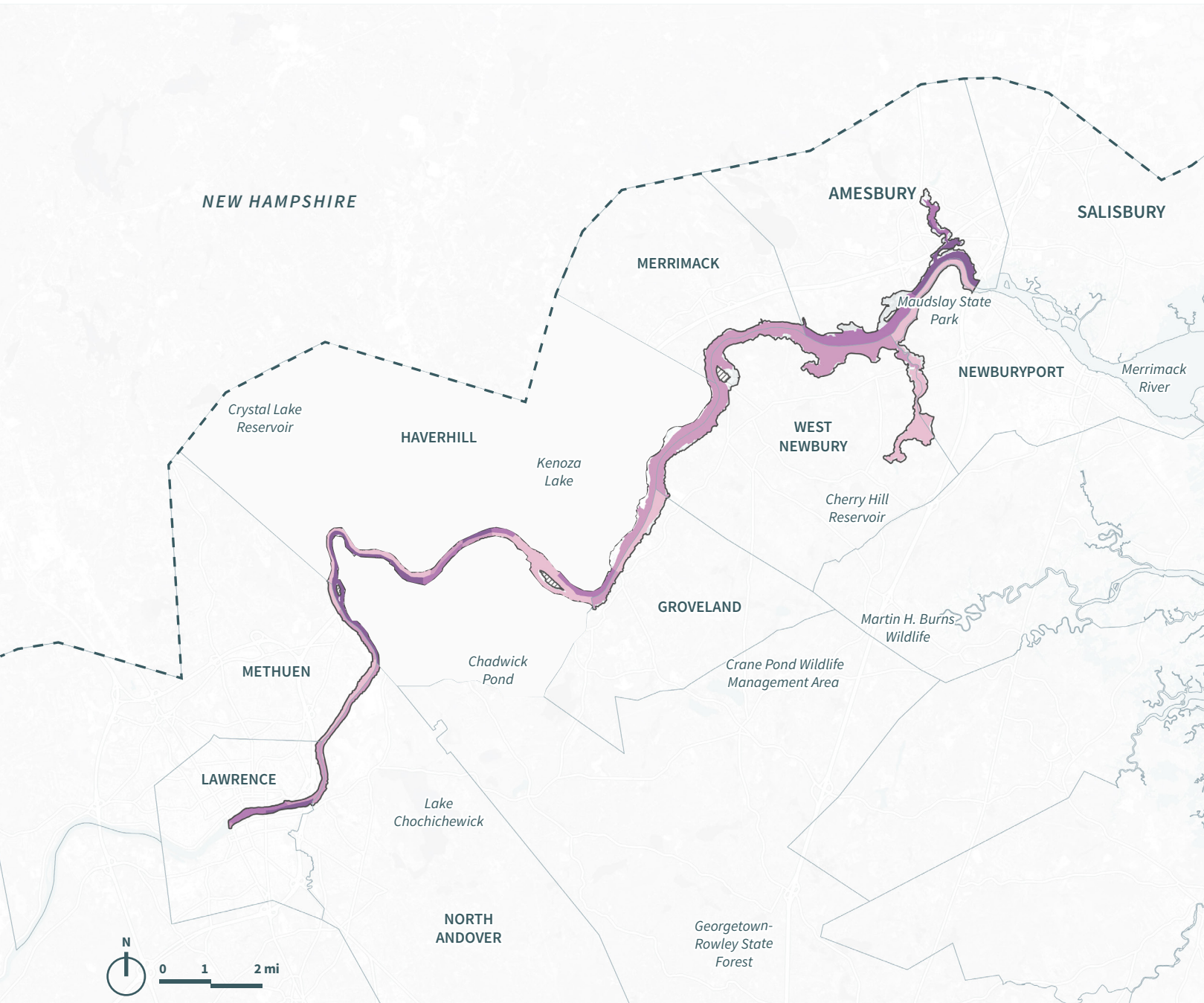
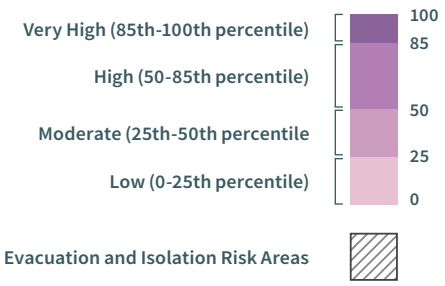
Concentration of Vulnerability (Percentiles):



Map 2: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in the Lower Merrimack district.

Economy

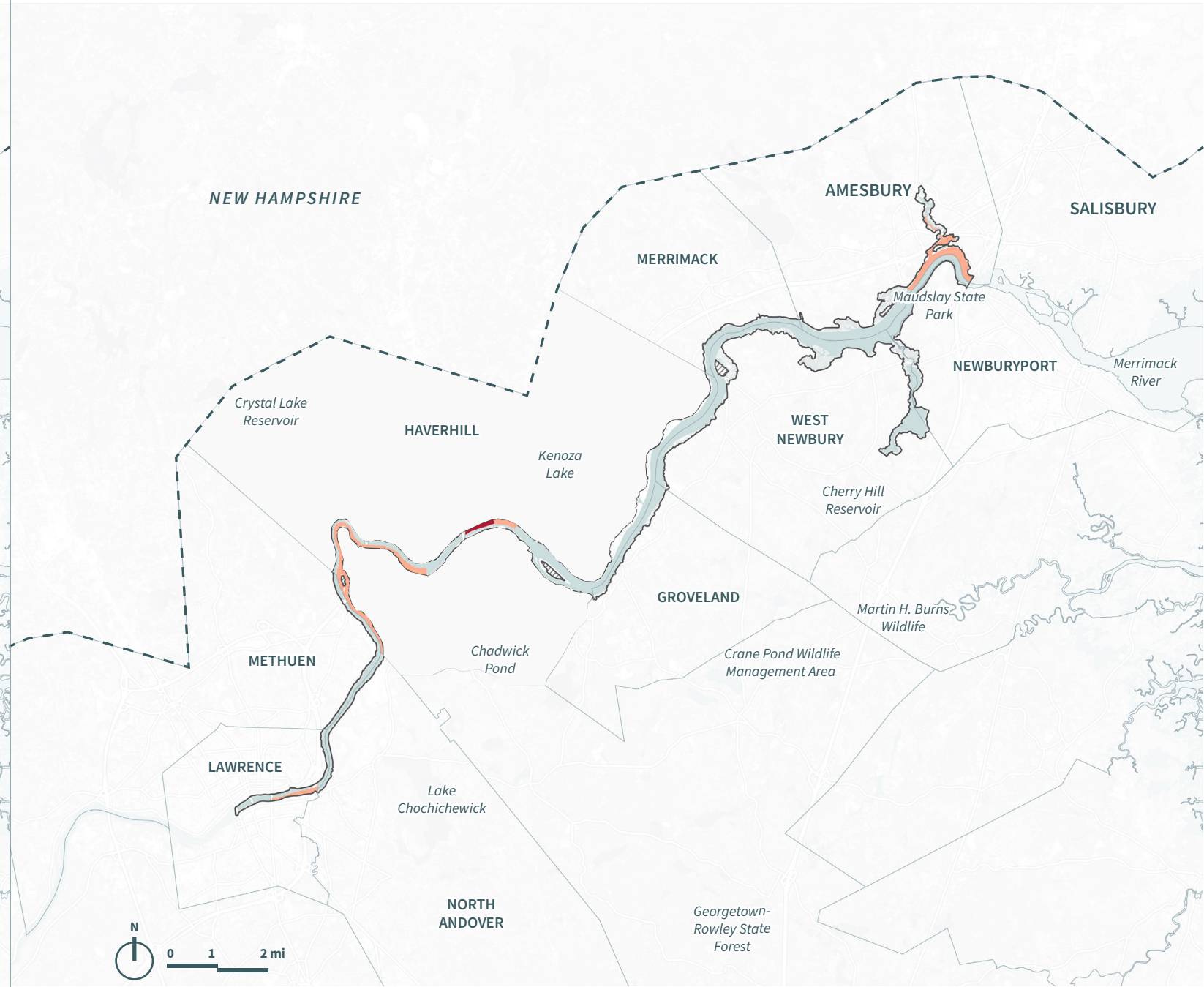
Concentration of Vulnerability (Percentiles):



Map 3: Relative Concentration of Near-Term Vulnerability of Economy in the Lower Merrimack district.

Cross-Sector Vulnerability

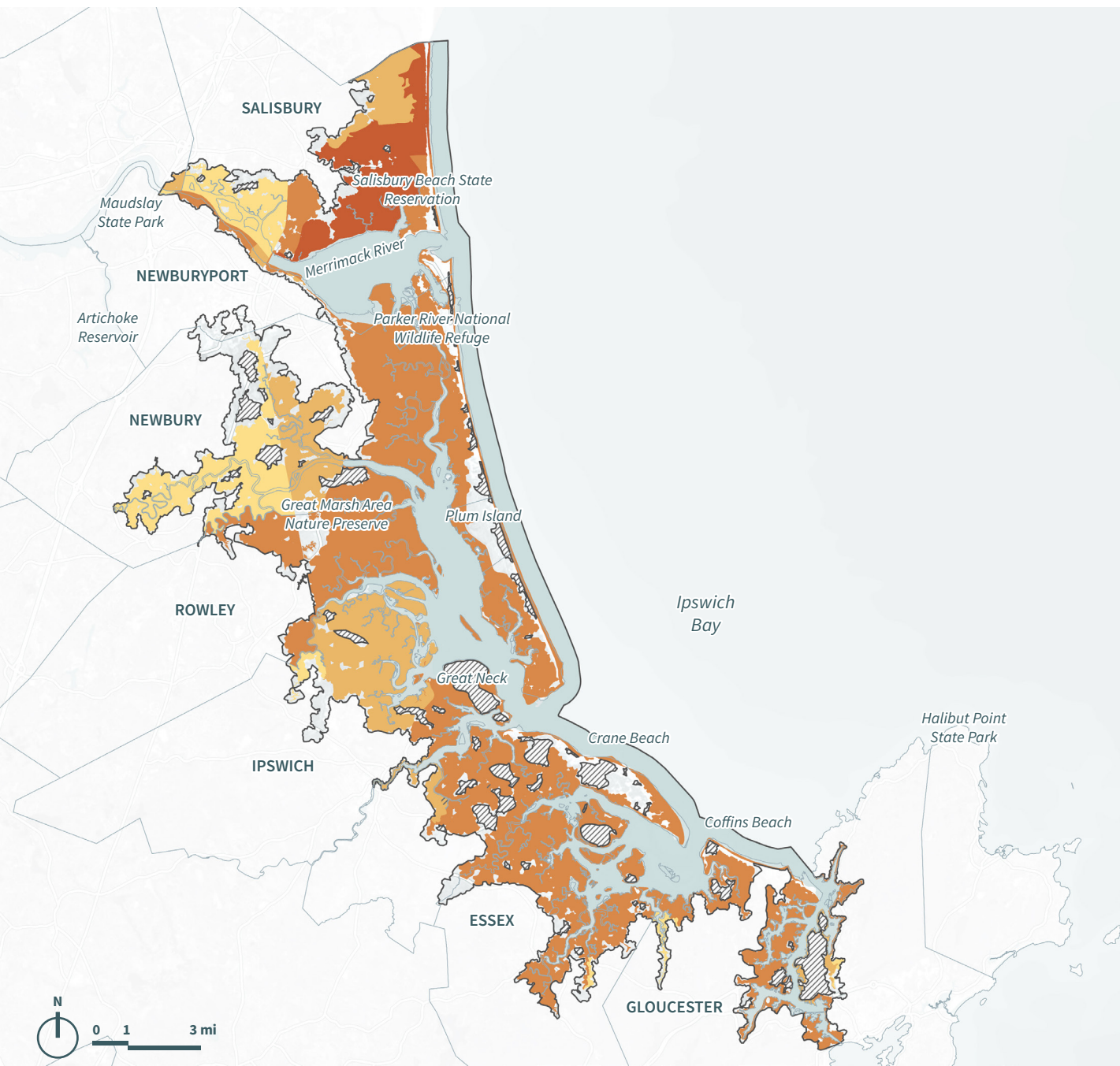
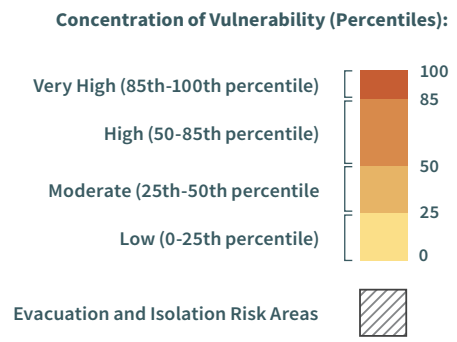
Very High Concentration of Vulnerability:



Map 4: Relative Concentration of Near-Term Cross-Sector Vulnerability in the Lower Merrimack district.

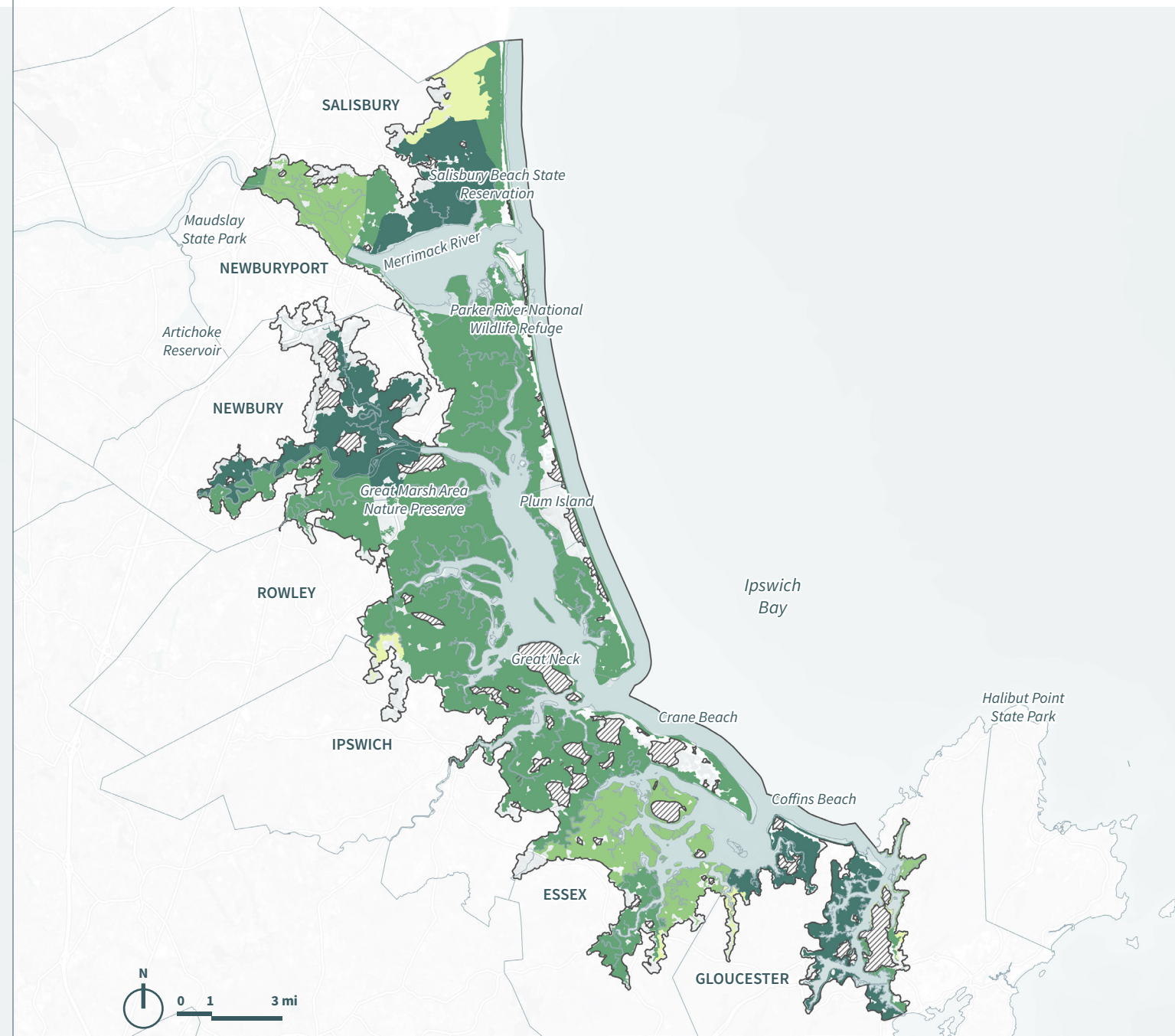
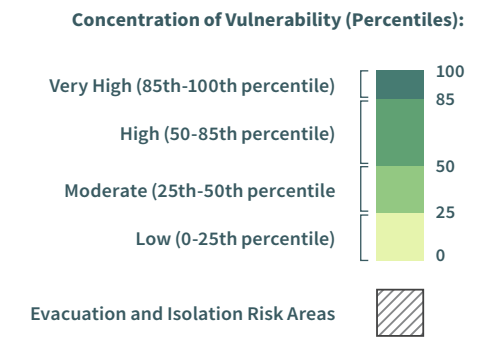
DISTRICT 02 Great Marsh

People & Housing



Map 5: Relative Concentration of Near-Term Vulnerability of People & Housing in the Great Marsh district.

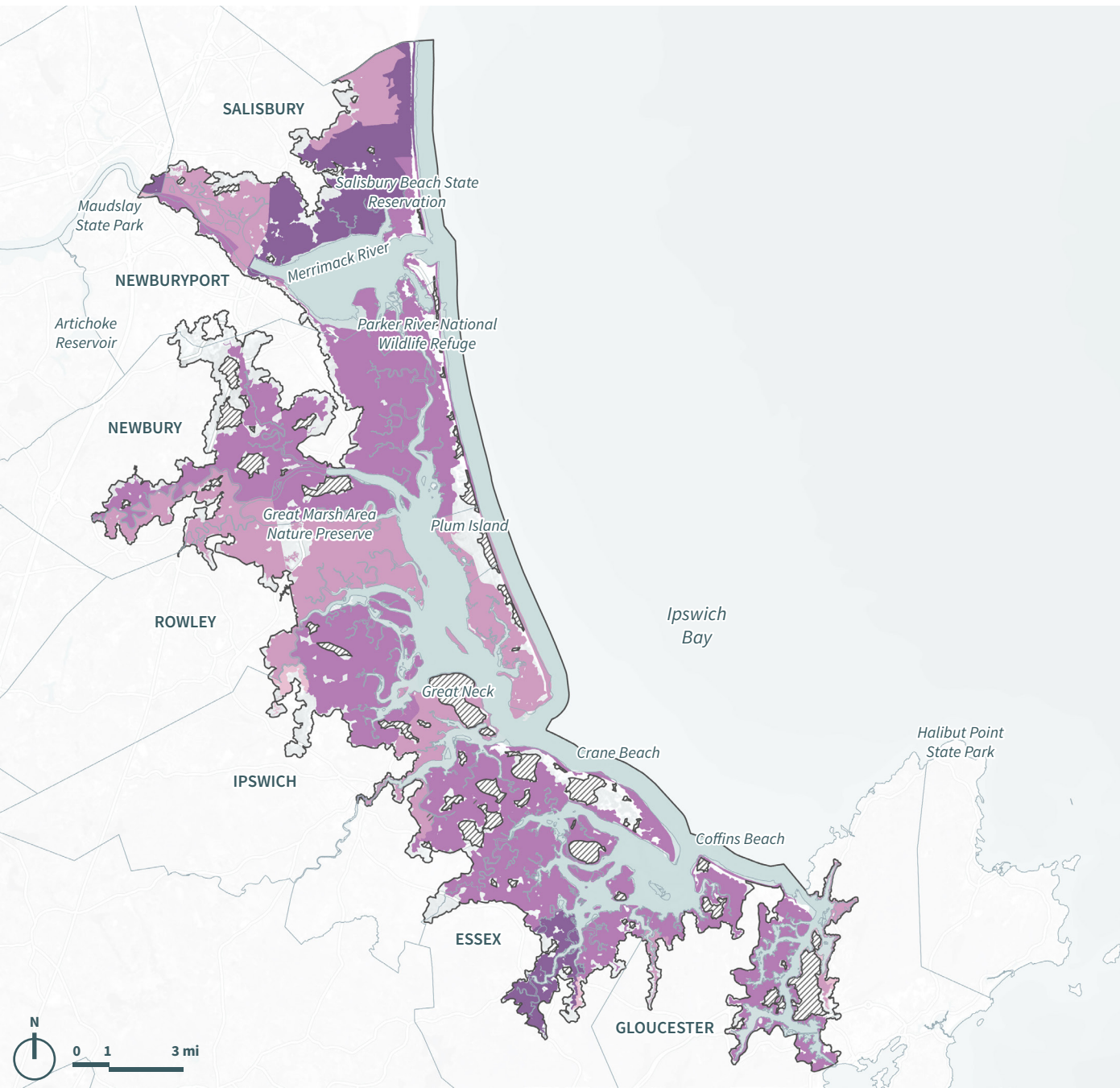
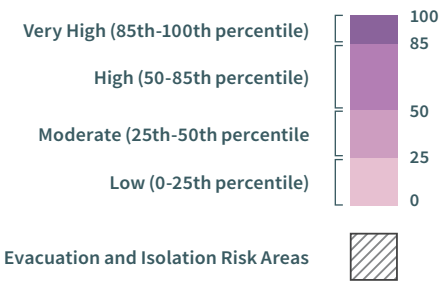
Built Infrastructure



Map 6: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in the Great Marsh district.

Economy

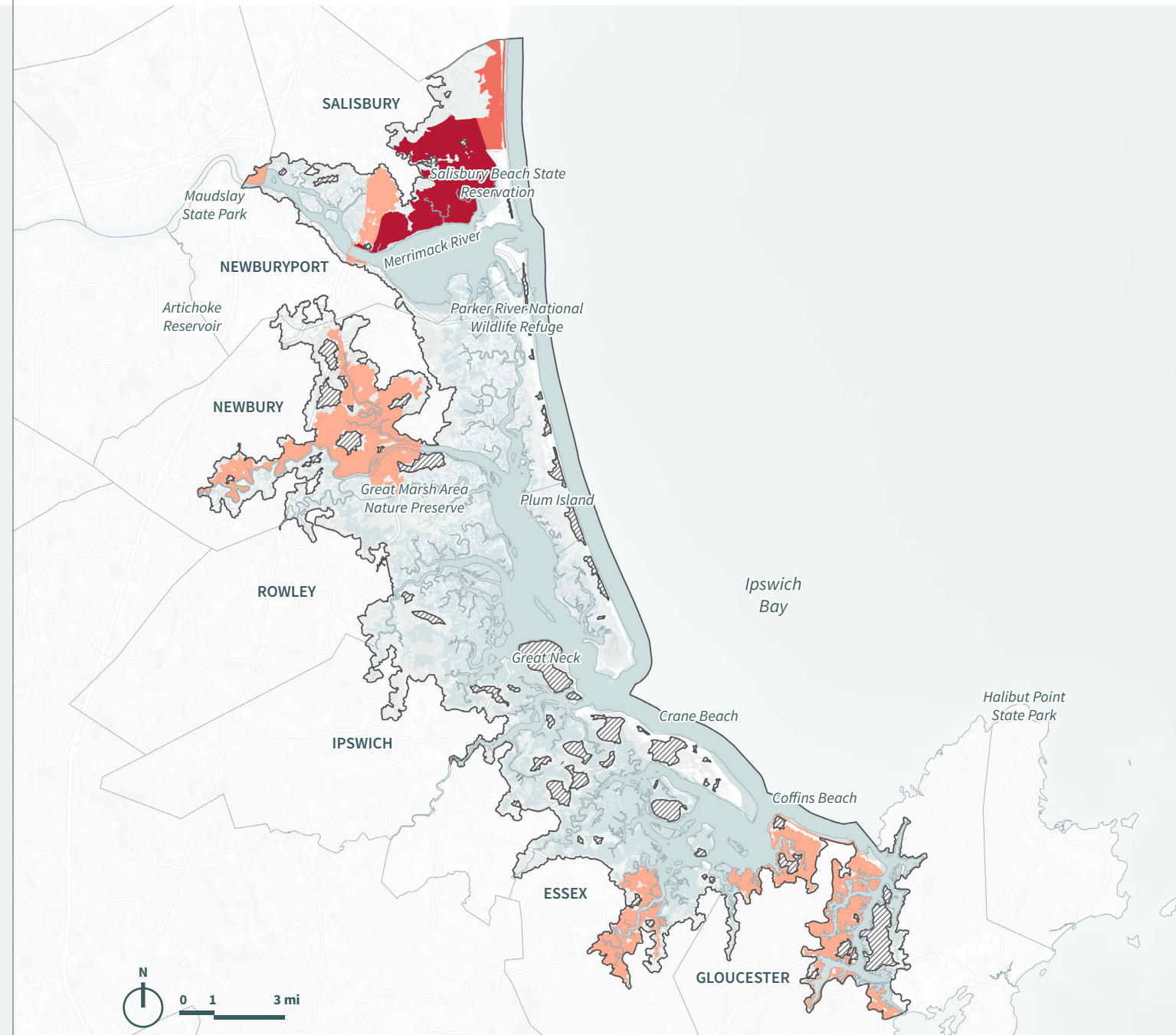
Concentration of Vulnerability (Percentiles):



Map 7: Relative Concentration of Near-Term Vulnerability of Economy in the Great Marsh district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



Map 8: Relative Concentration of Near-Term Cross-Sector Vulnerability in the Great Marsh district.

DISTRICT 03

Mid-North Shore

People & Housing

Concentration of Vulnerability (Percentiles):



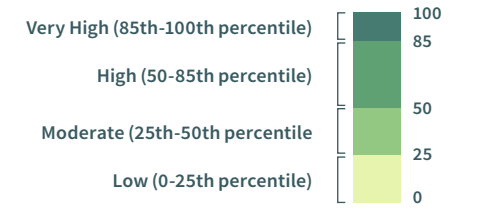
Evacuation and Isolation Risk Areas



Map 9: Relative Concentration of Near-Term Vulnerability of People & Housing in the Mid-North Shore district.

Built Infrastructure

Concentration of Vulnerability (Percentiles):



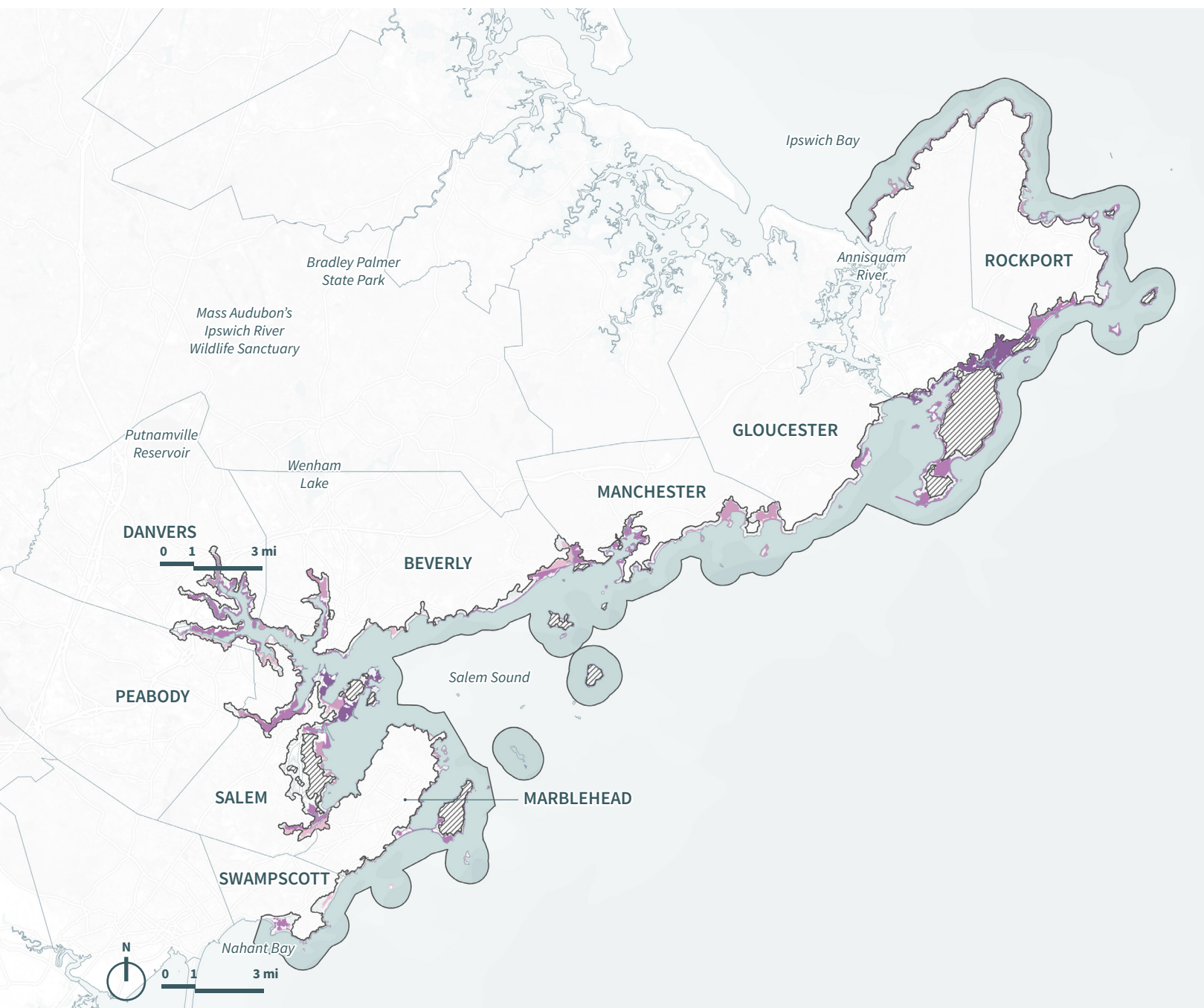
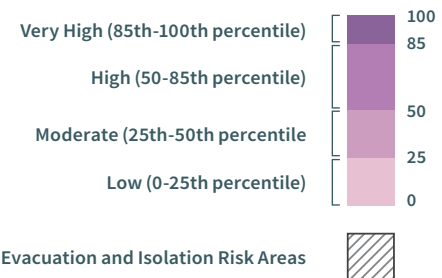
Evacuation and Isolation Risk Areas



Map 10: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in the Mid-North Shore district.

Economy

Concentration of Vulnerability (Percentiles):



Map 11: Relative Concentration of Near-Term Vulnerability of Economy in the Mid-North Shore district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



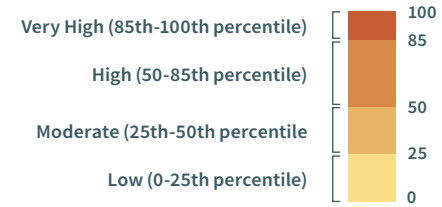
Map 12: Relative Concentration of Near-Term Cross-Sector Vulnerability in the Mid-North Shore district.

DISTRICT 04

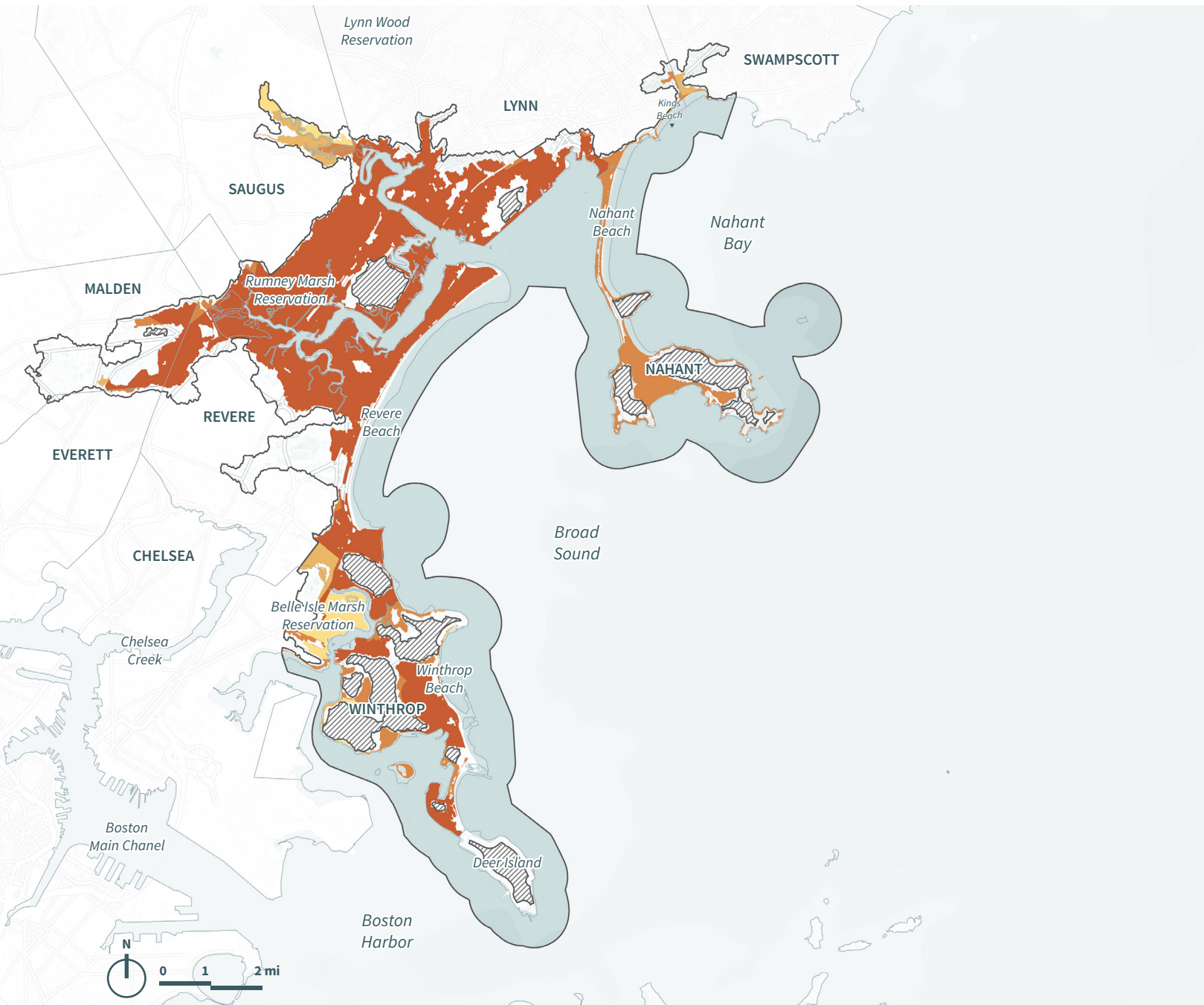
Saugus Watershed

People & Housing

Concentration of Vulnerability (Percentiles):



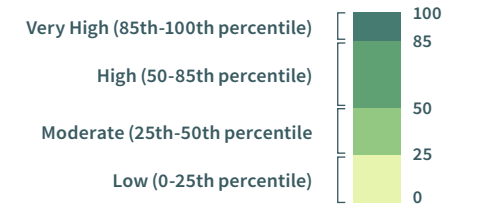
Evacuation and Isolation Risk Areas



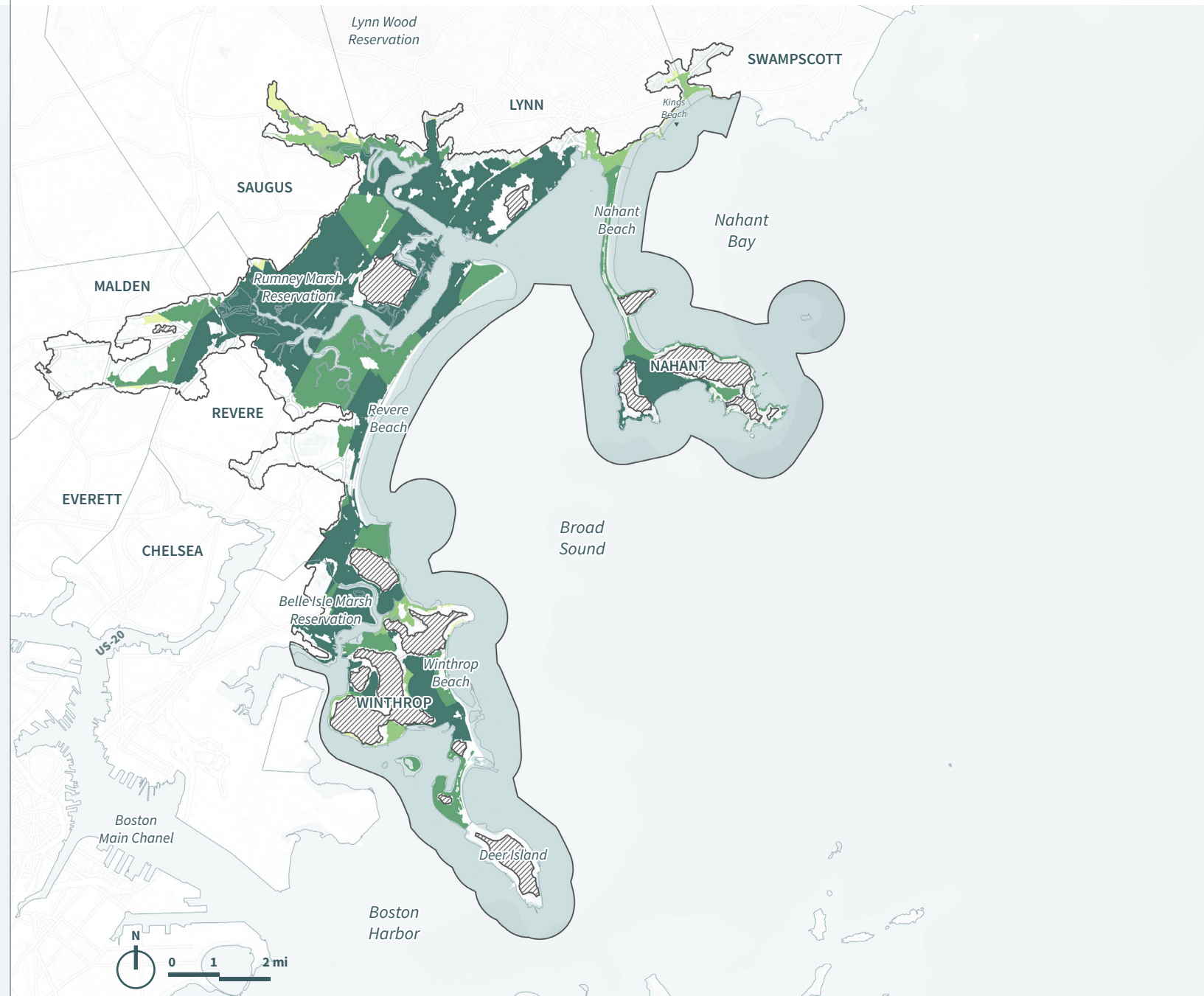
Map 13: Relative Concentration of Near-Term Vulnerability of People & Housing in the Saugus Watershed district.

Built Infrastructure

Concentration of Vulnerability (Percentiles):

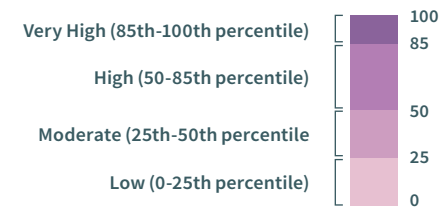


Evacuation and Isolation Risk Areas



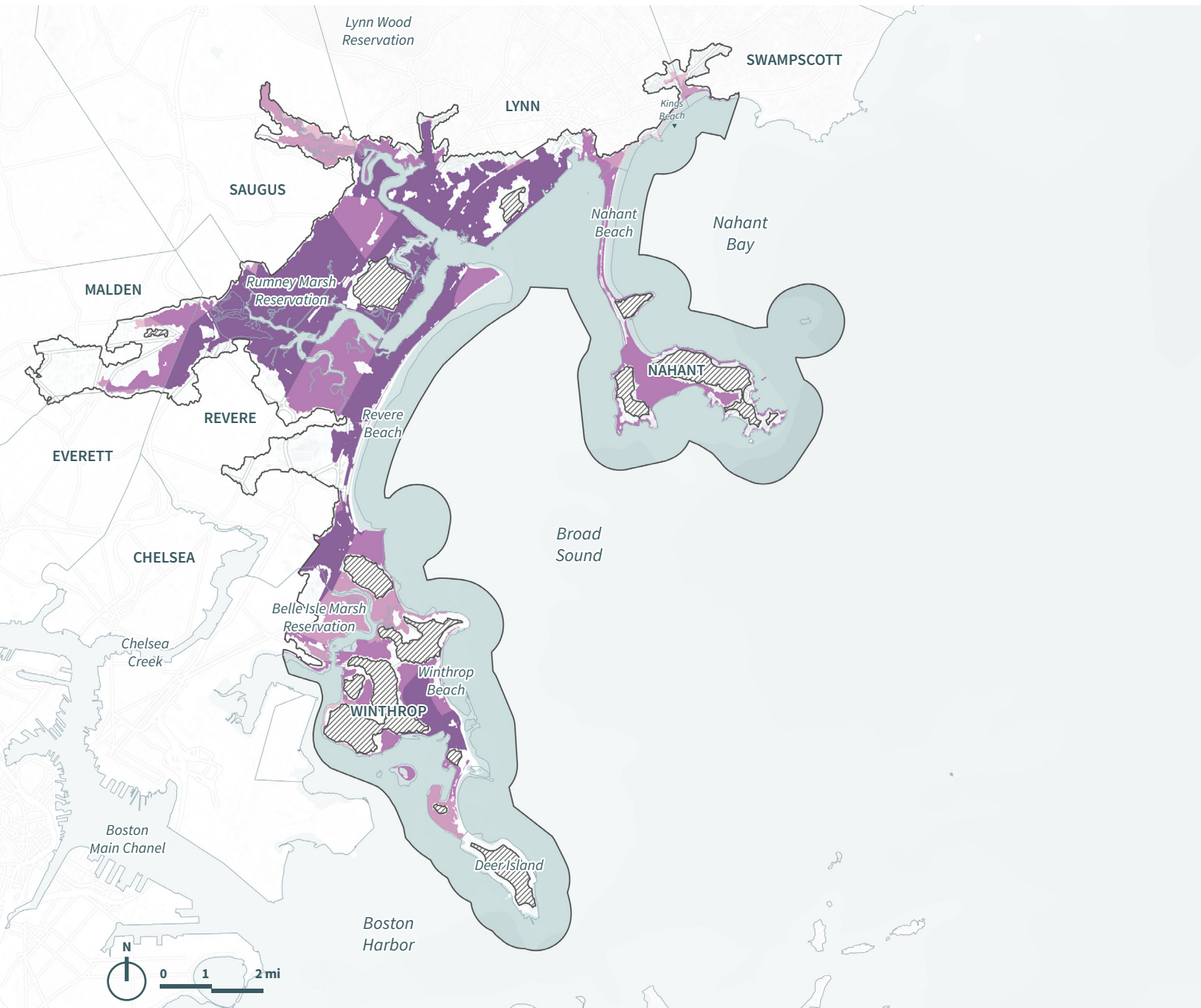
Map 14: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in the Saugus Watershed district.

Concentration of Vulnerability (Percentiles):



Evacuation and Isolation Risk Areas

Economy



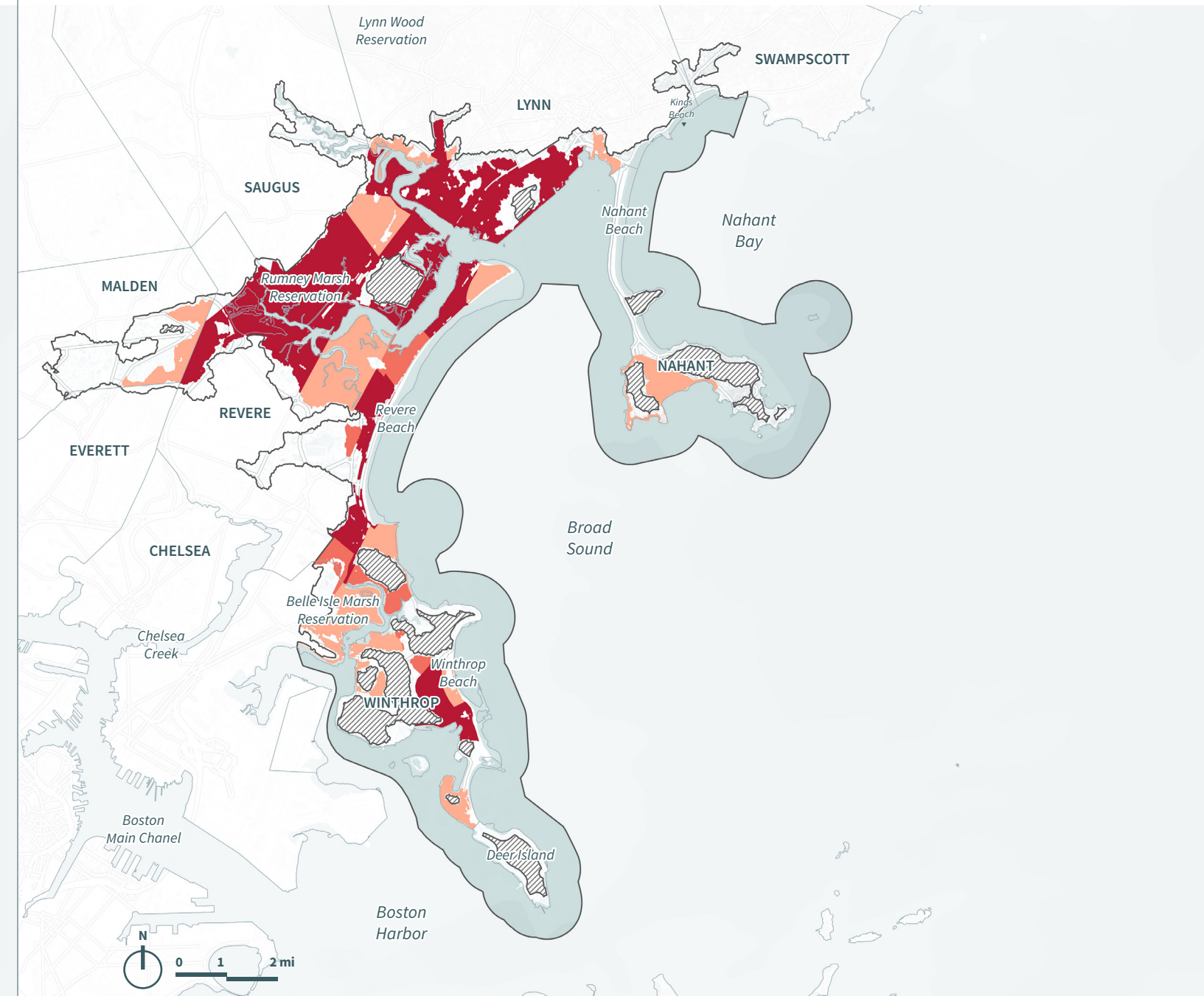
Map 15: Relative Concentration of Near-Term Vulnerability of Economy in the Saugus Watershed district.

Very High Concentration of Vulnerability:



Evacuation and Isolation Risk Areas

Cross-Sector Vulnerability



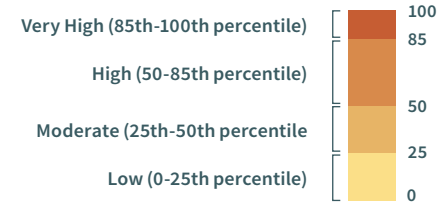
Map 16: Relative Concentration of Near-Term Cross-Sector Vulnerability in the Saugus Watershed district.

DISTRICT 05

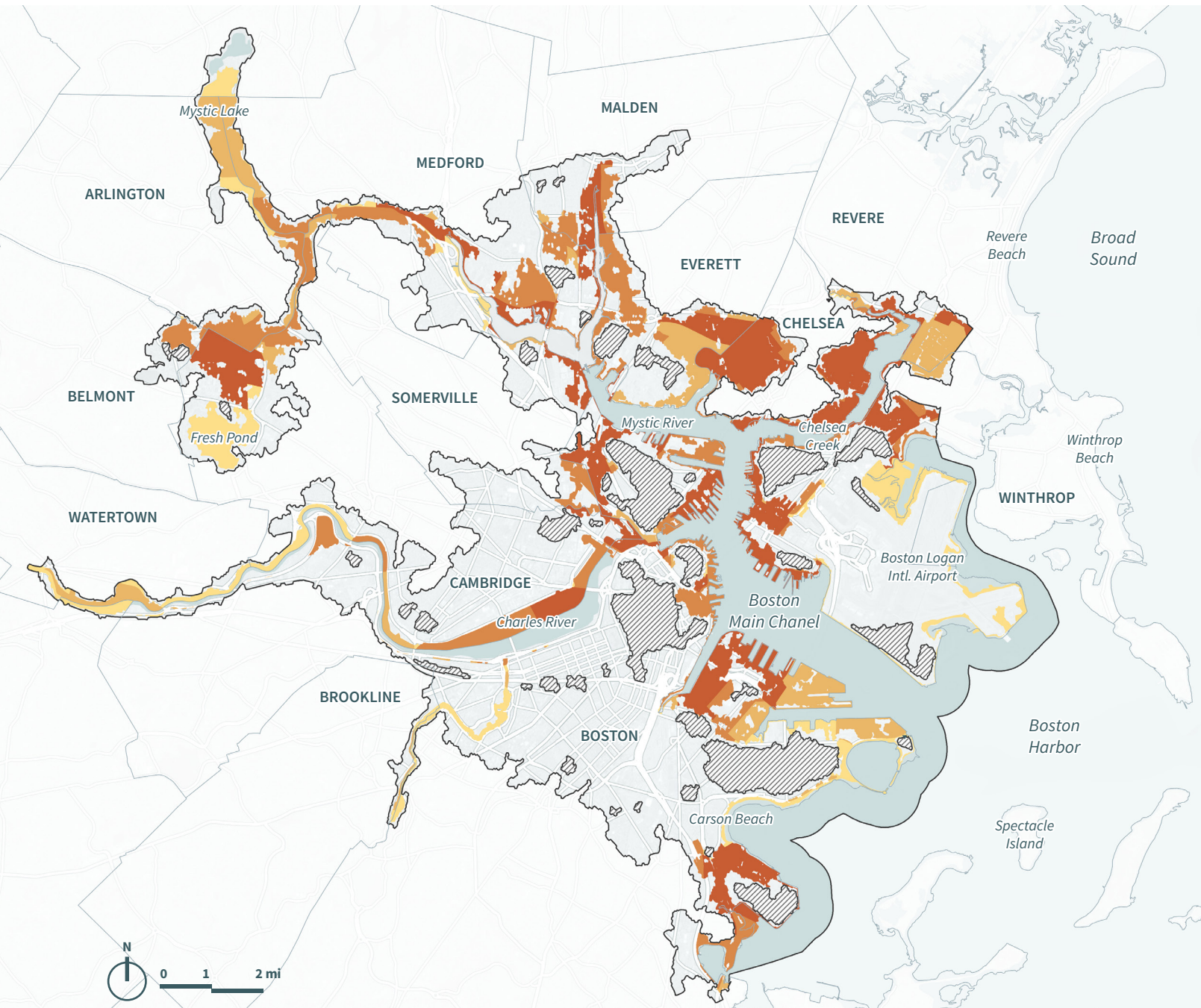
Mystic-Charles Watersheds

People & Housing

Concentration of Vulnerability (Percentiles):



Evacuation and Isolation Risk Areas



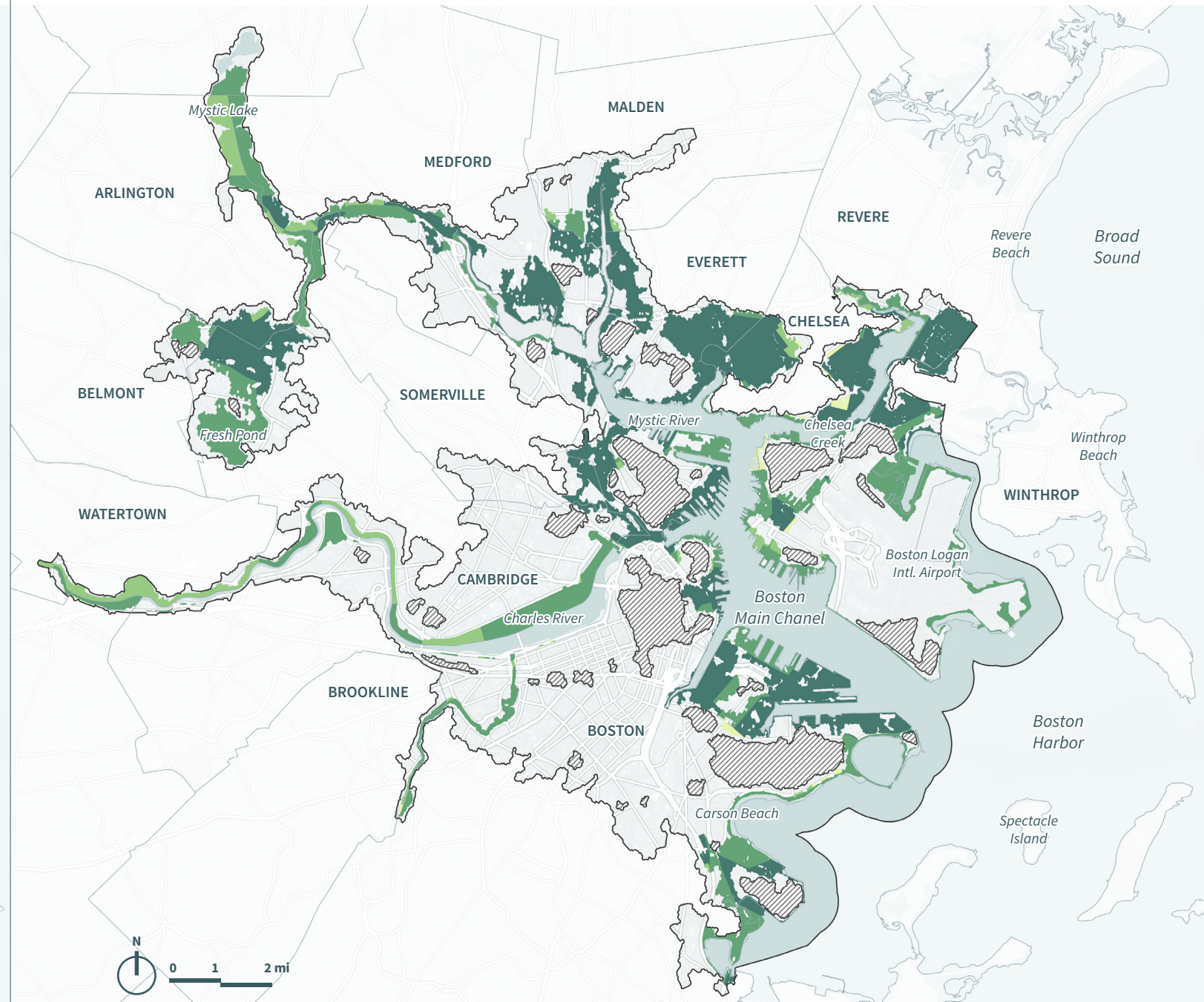
Map 17: Relative Concentration of Near-Term Vulnerability of People & Housing in the Mystic-Charles Watersheds district.

Built Infrastructure

Concentration of Vulnerability (Percentiles):



Evacuation and Isolation Risk Areas



Map 18: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in the Mystic-Charles Watersheds district.

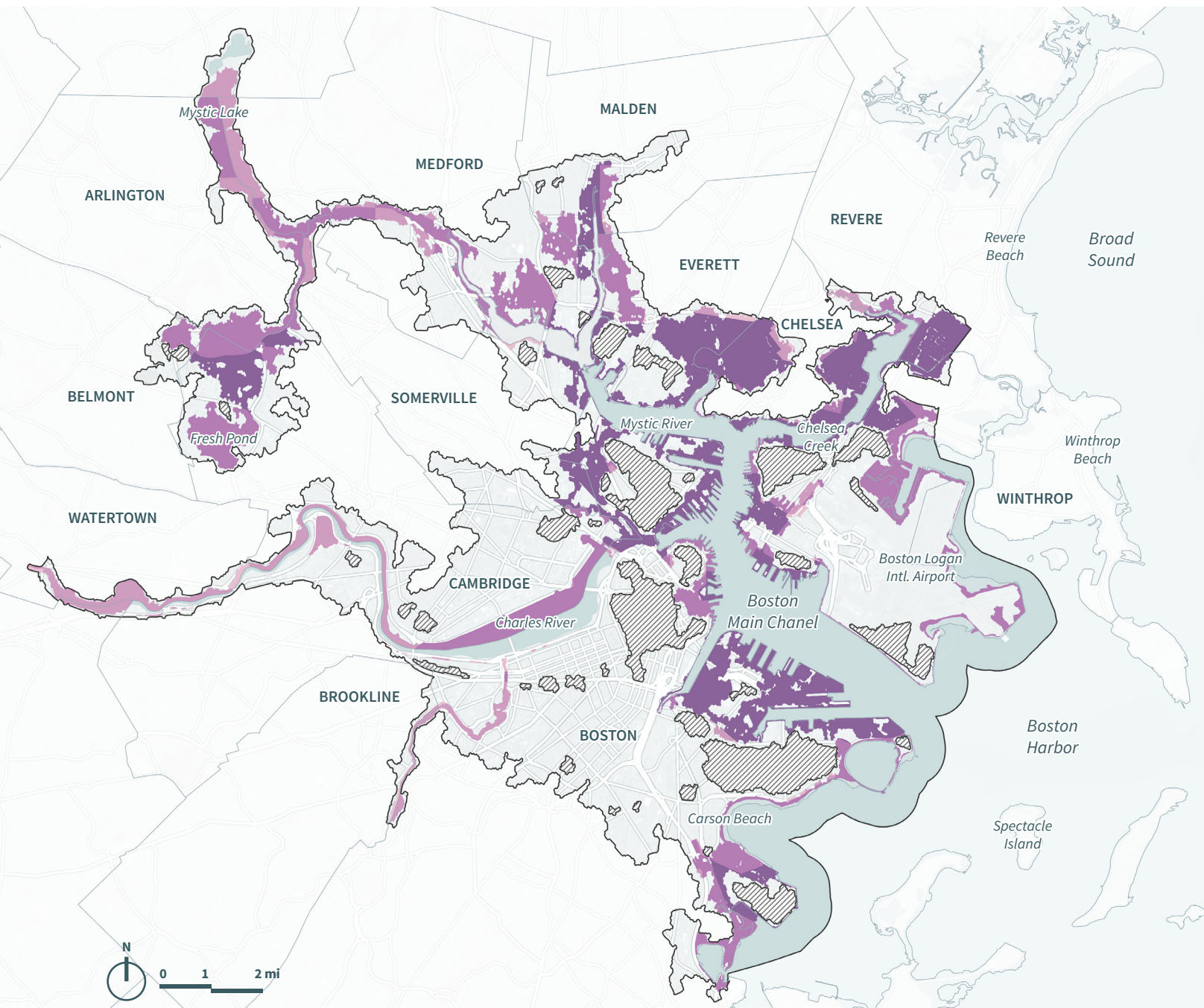
Concentration of Vulnerability (Percentiles):



Evacuation and Isolation Risk Areas



Economy



Map 19: Relative Concentration of Near-Term Vulnerability of Economy in the Mystic-Charles Watersheds district.

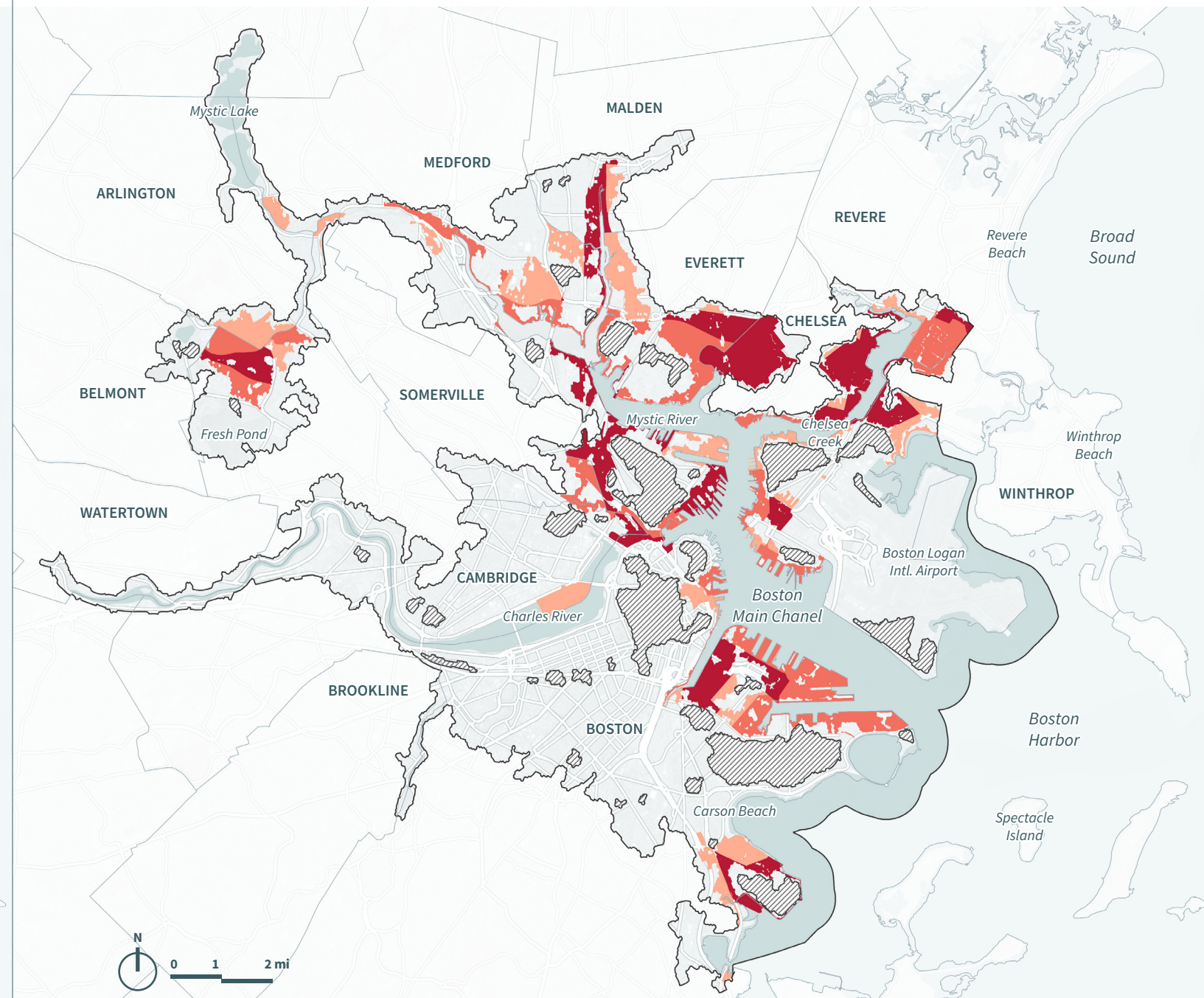
Very High Concentration of Vulnerability:



Evacuation and Isolation Risk Areas



Cross-Sector Vulnerability



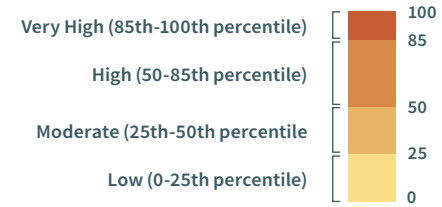
Map 20: Relative Concentration of Near-Term Cross-Sector Vulnerability in the Mystic-Charles Watersheds district.

DISTRICT 07

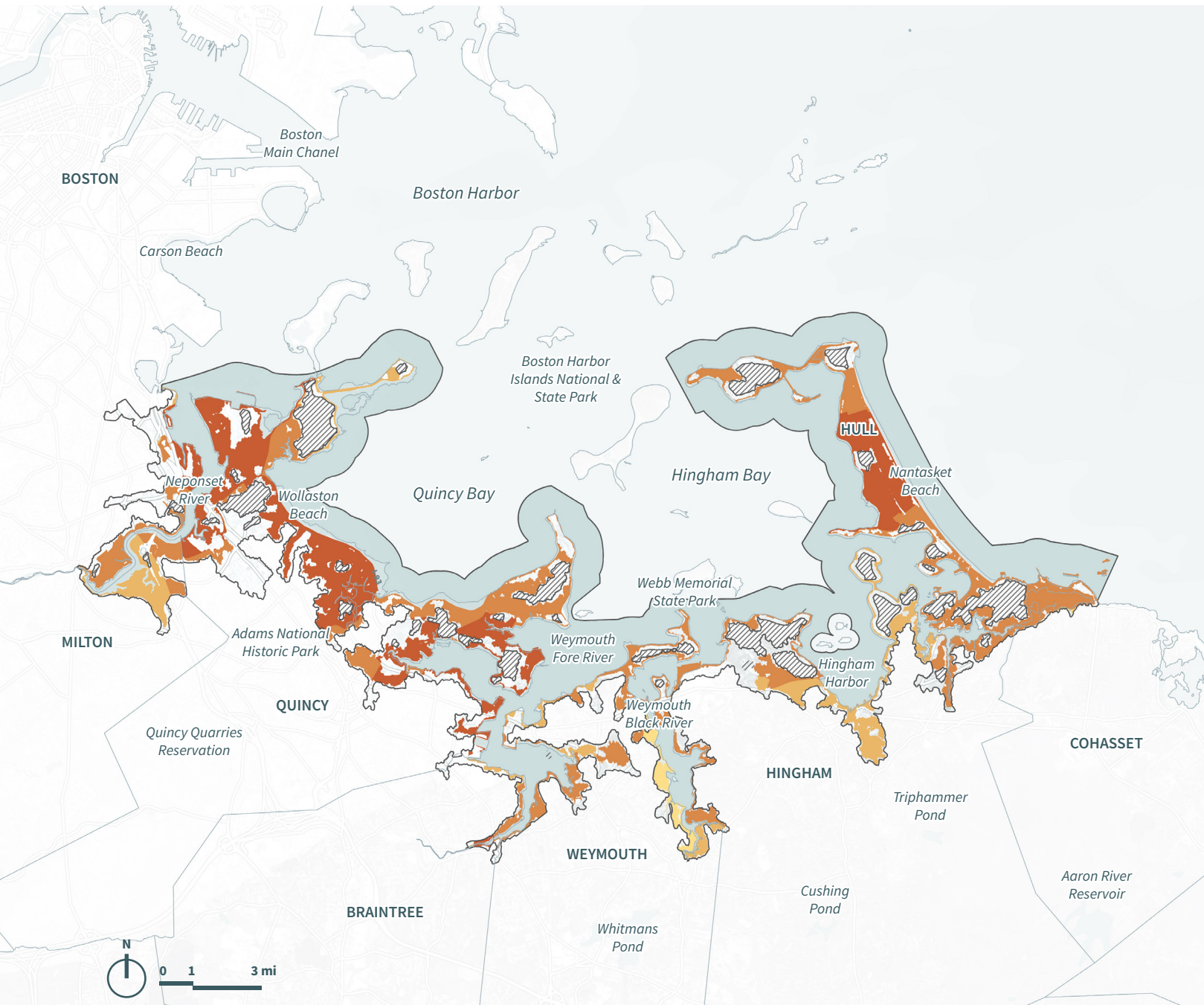
Neponset-Weir Watersheds

People & Housing

Concentration of Vulnerability (Percentiles):



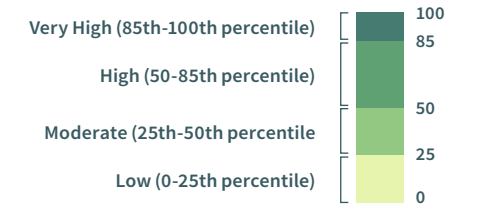
Evacuation and Isolation Risk Areas



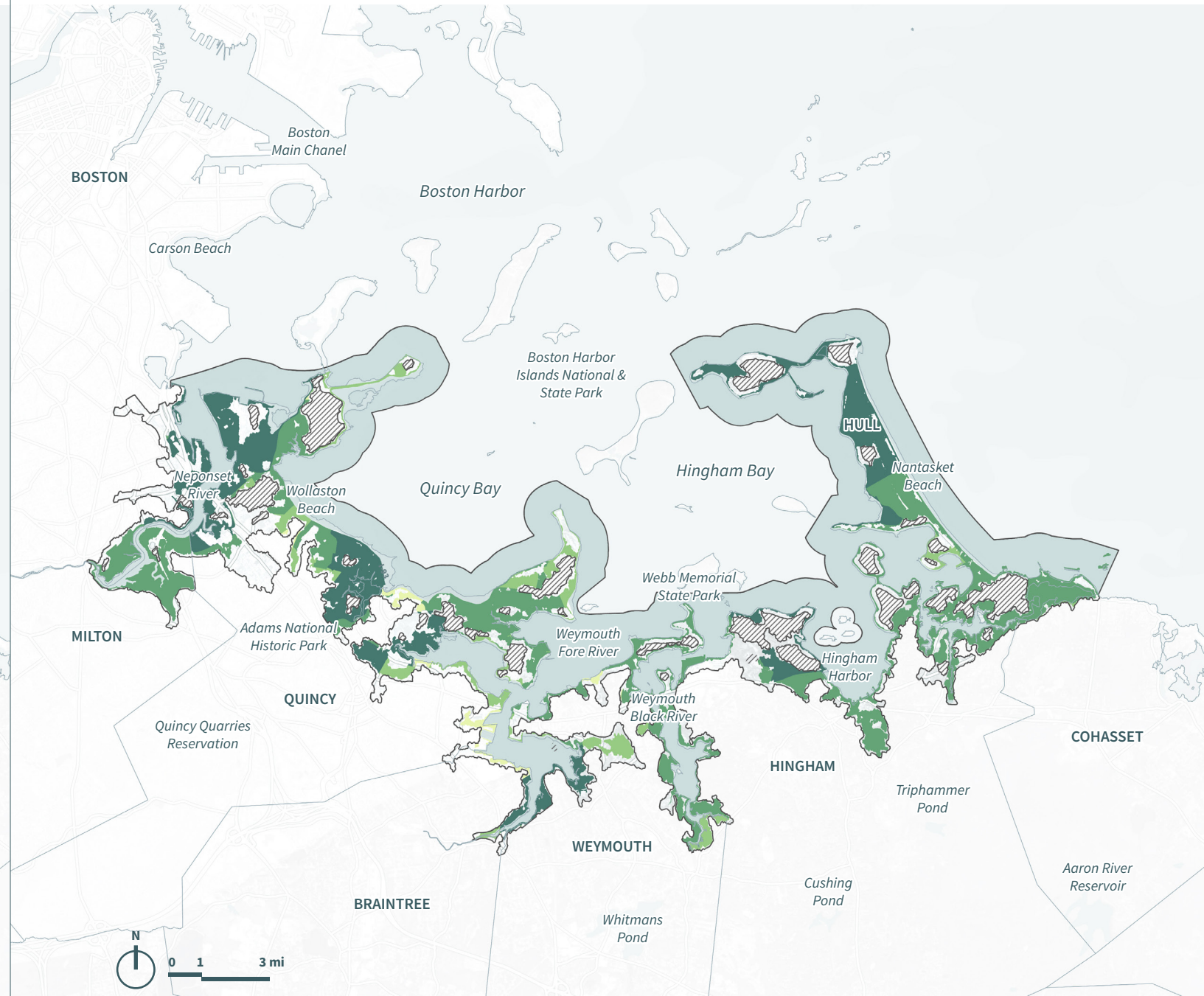
Map 21: Relative Concentration of Near-Term Vulnerability of People & Housing in Neponset-Weir Watersheds district.

Built Infrastructure

Concentration of Vulnerability (Percentiles):



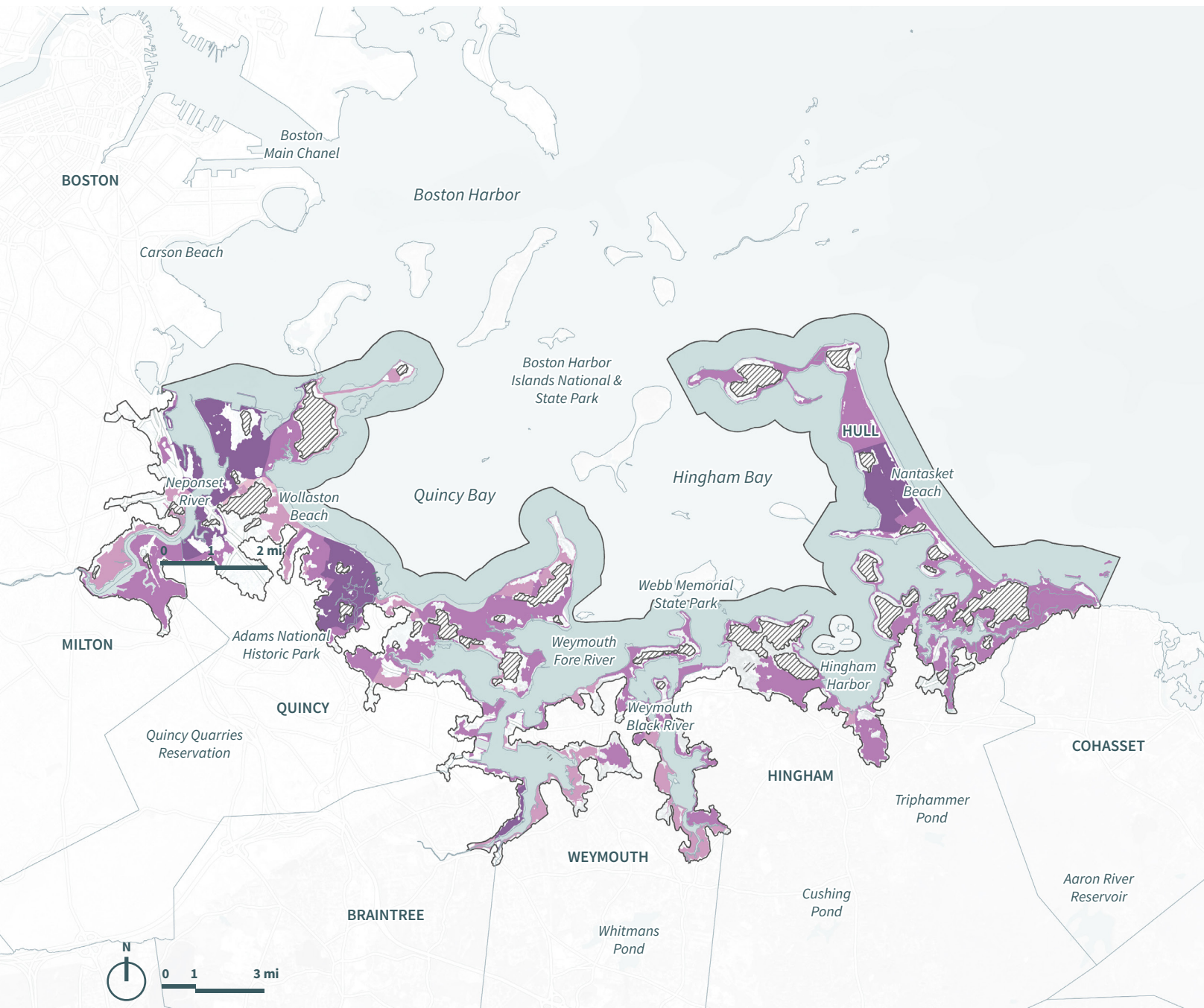
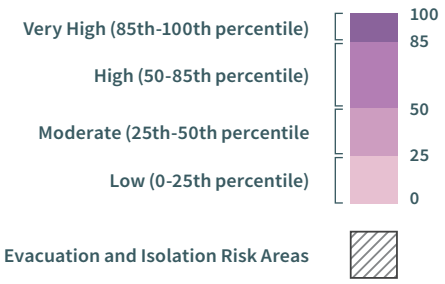
Evacuation and Isolation Risk Areas



Map 22: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in Neponset-Weir Watersheds district.

Economy

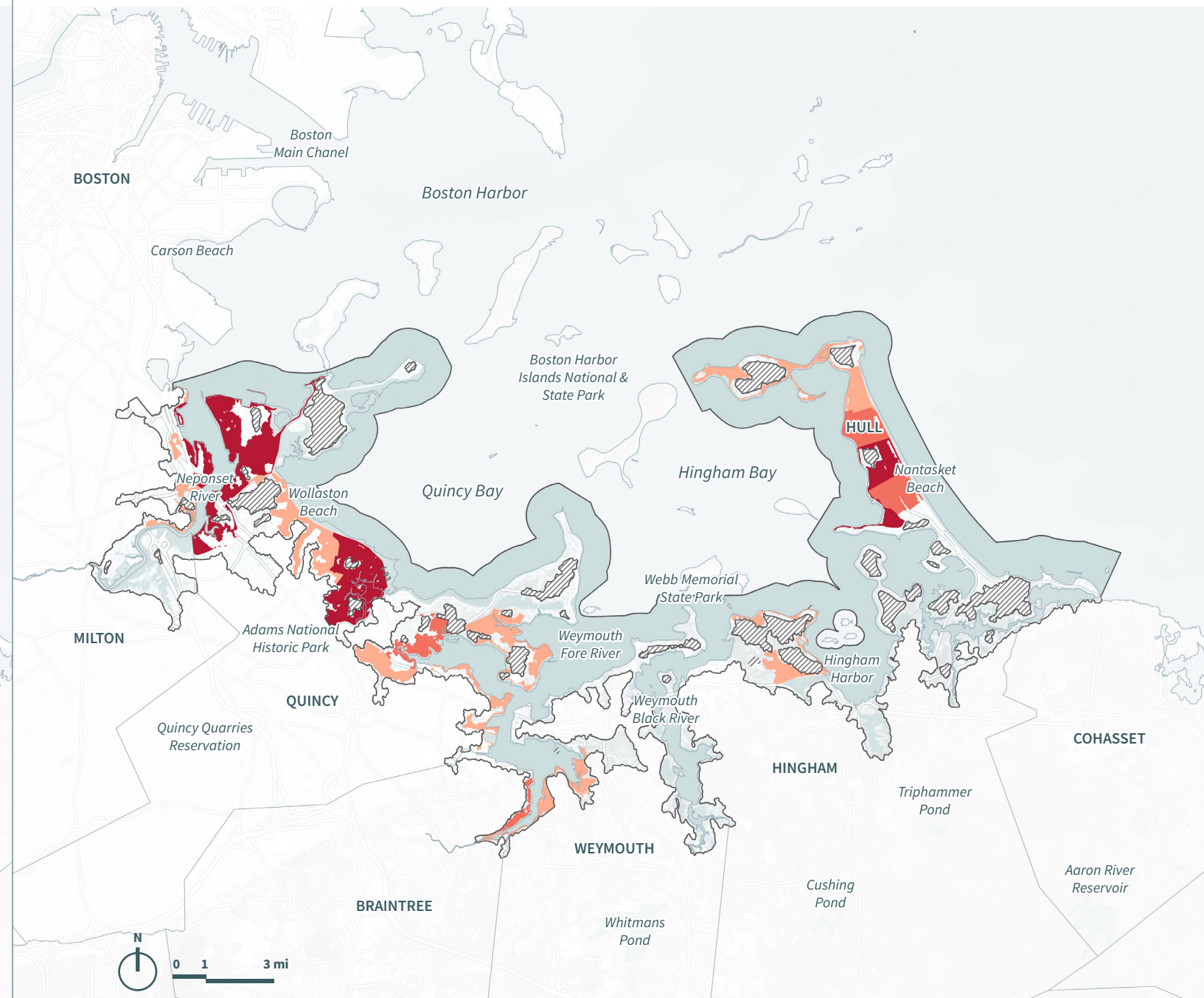
Concentration of Vulnerability (Percentiles):



Map 23: Relative Concentration of Near-Term Vulnerability of Economy in Neponset-Weir Watersheds district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



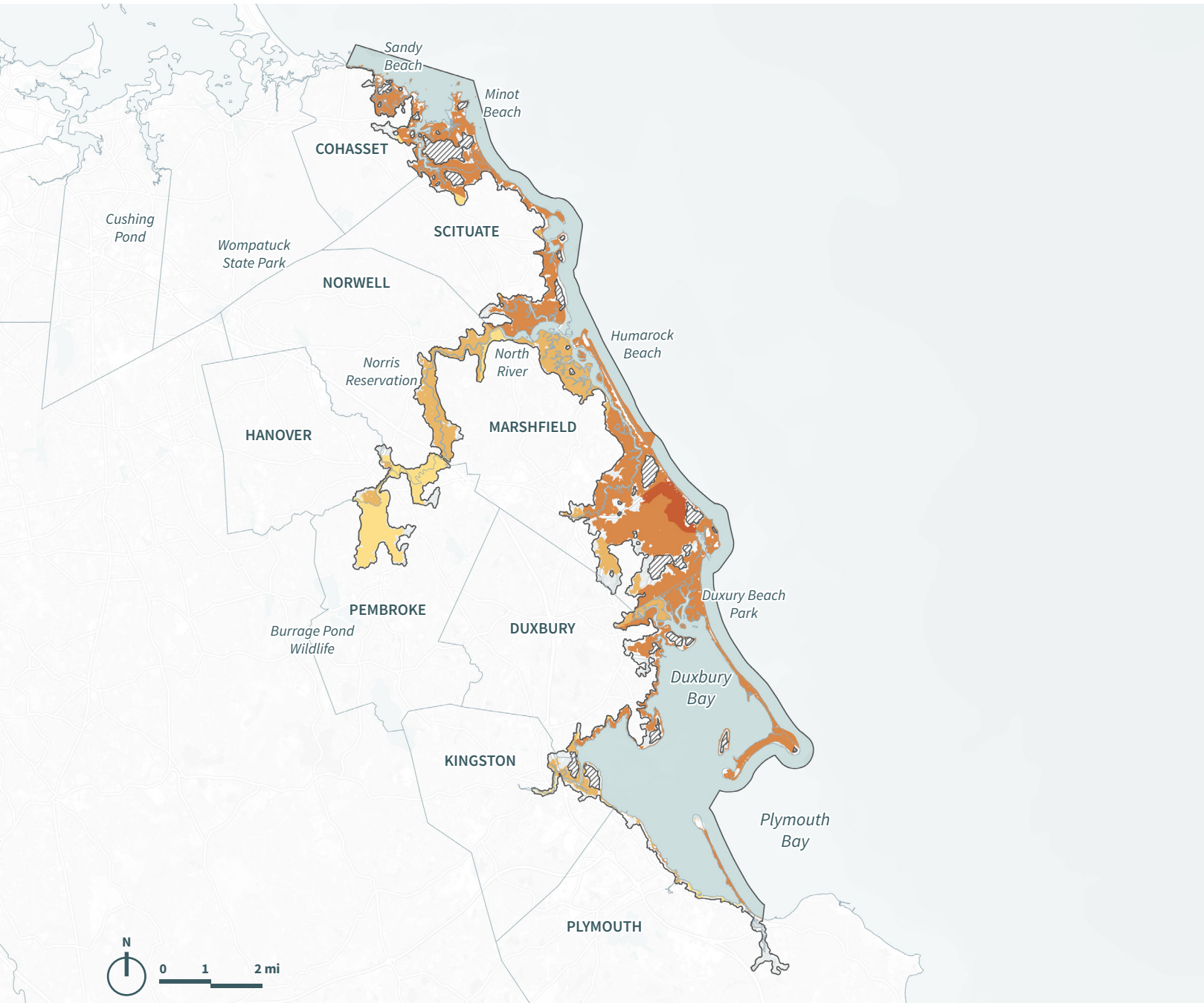
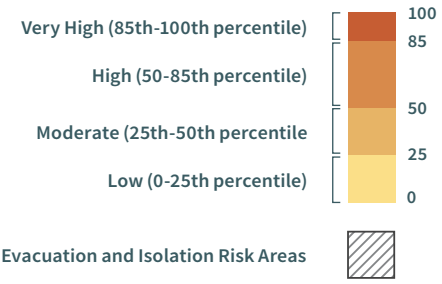
Map 24: Relative Concentration of Near-Term Cross-Sector Vulnerability in Neponset-Weir Watersheds district.

DISTRICT 08

Mid-South Shore

People & Housing

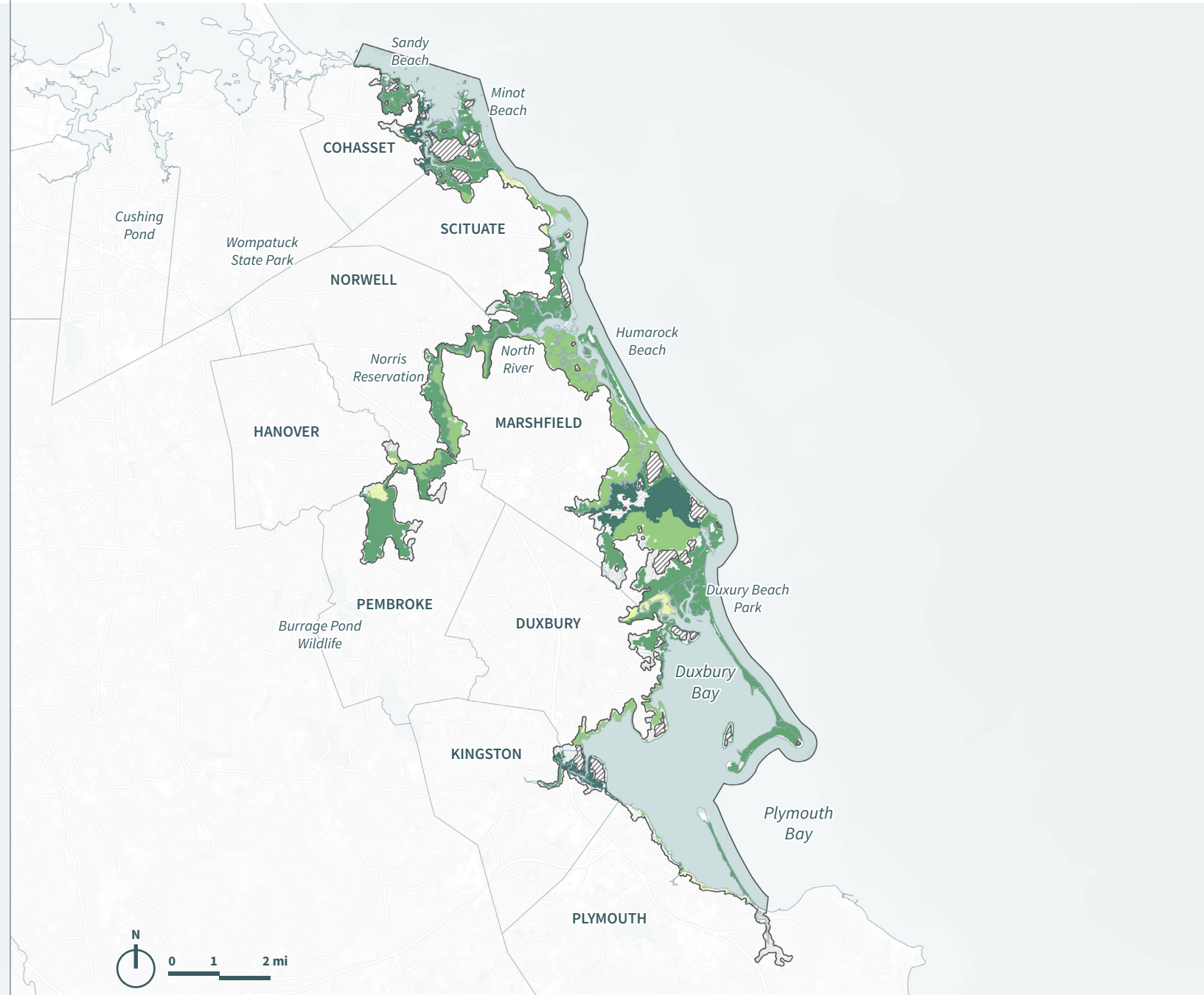
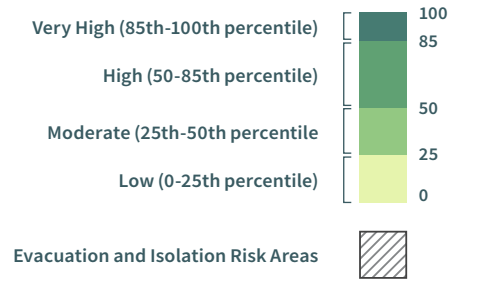
Concentration of Vulnerability (Percentiles):



Map 25: Relative Concentration of Near-Term Vulnerability of People & Housing in Mid-South Shore district.

Built Infrastructure

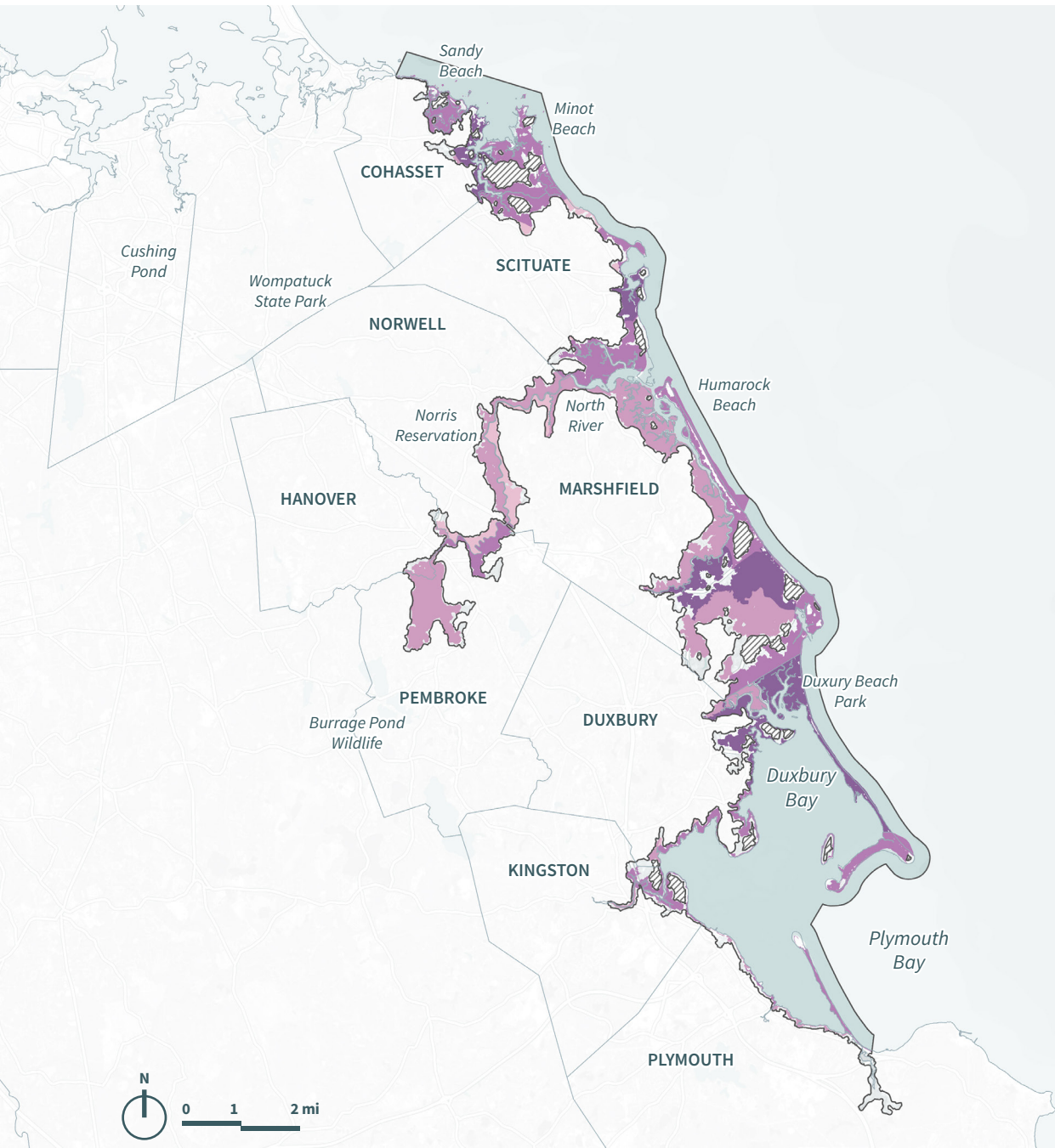
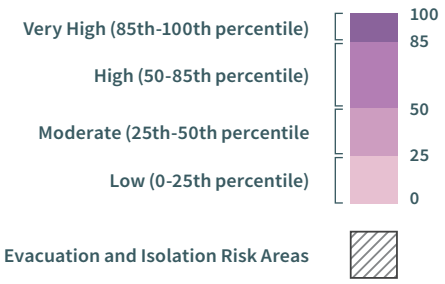
Concentration of Vulnerability (Percentiles):



Map 26: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in Mid-South Shore district.

Economy

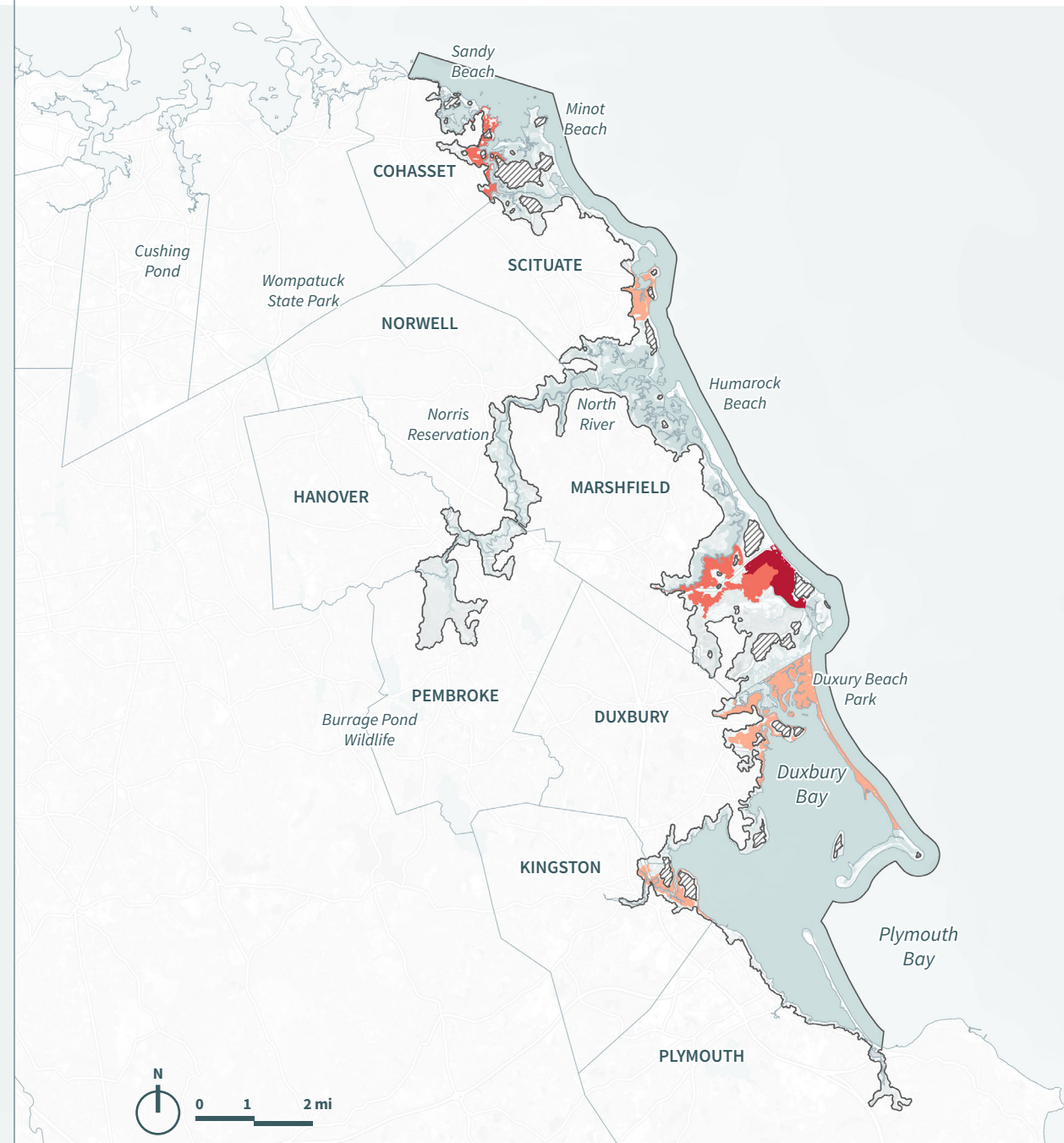
Concentration of Vulnerability (Percentiles):



Map 27: Relative Concentration of Near-Term Vulnerability of Economy in Mid-South Shore district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:

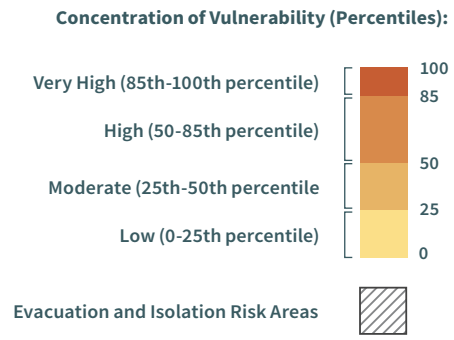


Map 28: Relative Concentration of Near-Term Cross-Sector Vulnerability in Mid-South Shore district.

DISTRICT 09

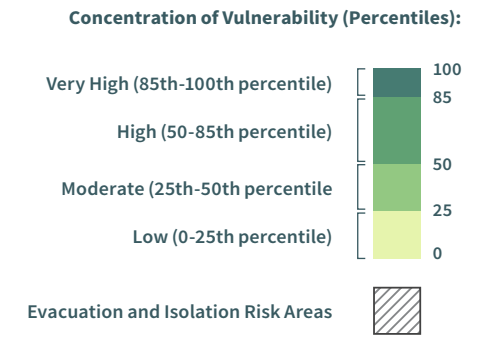
Manomet Sagamore

People & Housing



Map 29: Relative Concentration of Near-Term Vulnerability of People & Housing in Manomet-Sagamore district.

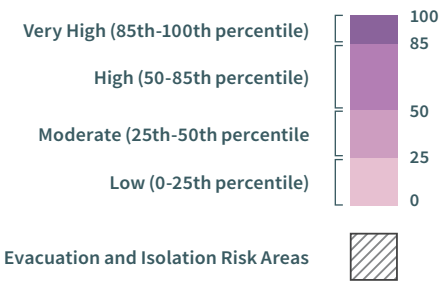
Built Infrastructure



Map 30: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in Manomet-Sagamore district.

Economy

Concentration of Vulnerability (Percentiles):



Map 31: Relative Concentration of Near-Term Vulnerability of Economy in Manomet-Sagamore district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



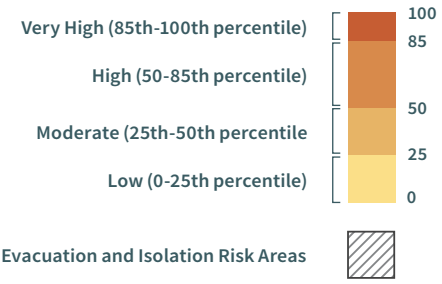
Map 32: Relative Concentration of Near-Term Cross-Sector Vulnerability in Manomet-Sagamore district.

DISTRICT 10

North Cape Cod

People & Housing

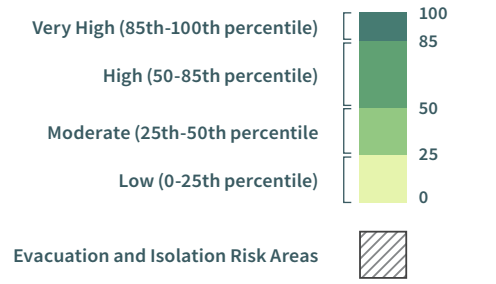
Concentration of Vulnerability (Percentiles):



Map 33: Relative Concentration of Near-Term Vulnerability of People & Housing in North Cape Cod district.

Built Infrastructure

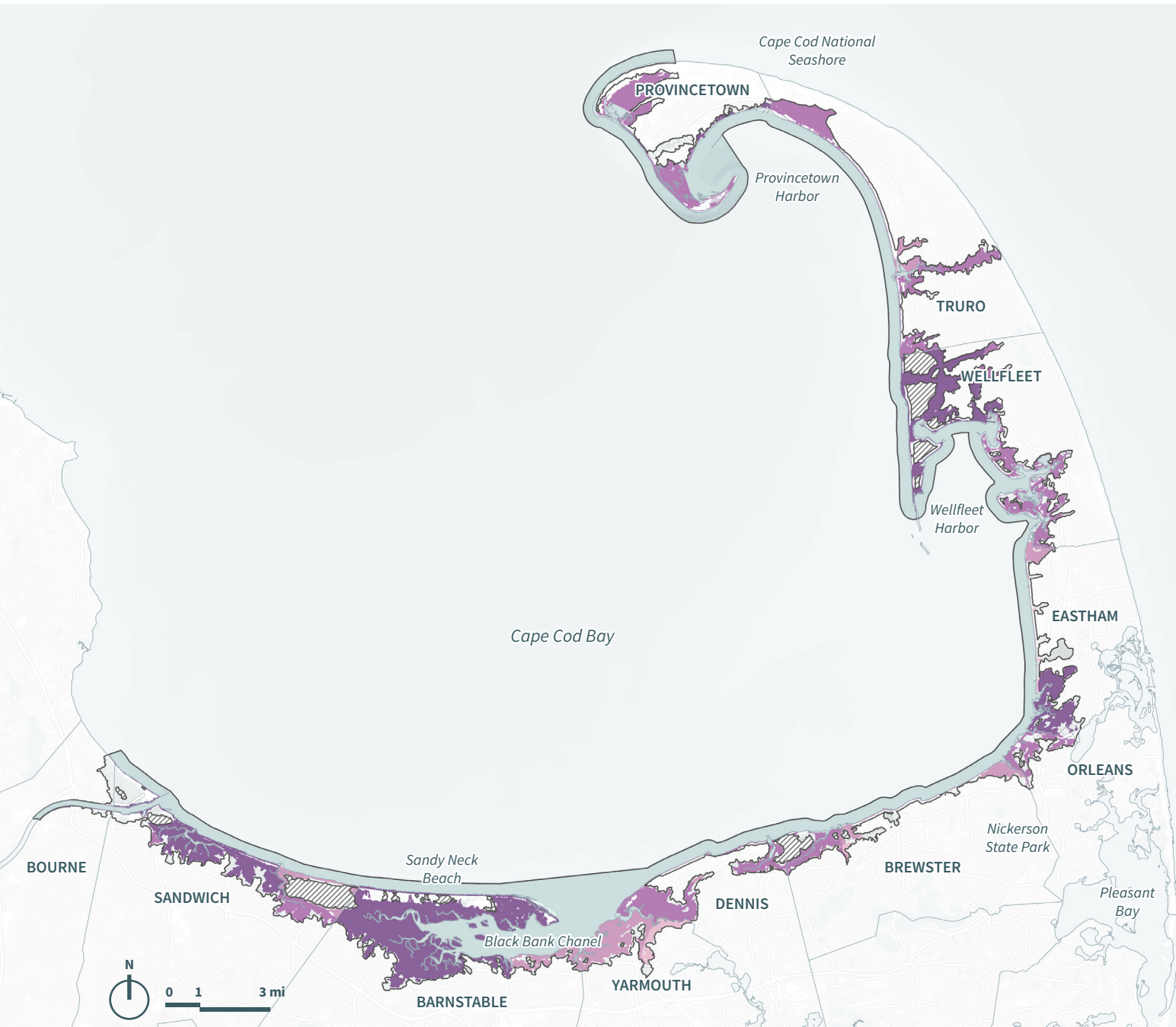
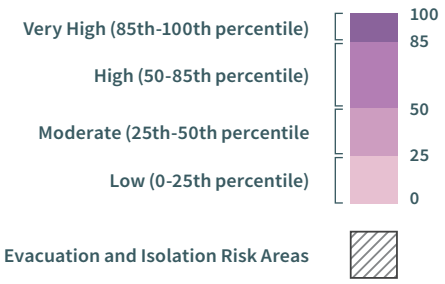
Concentration of Vulnerability (Percentiles):



Map 34: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in North Cape Cod district.

Economy

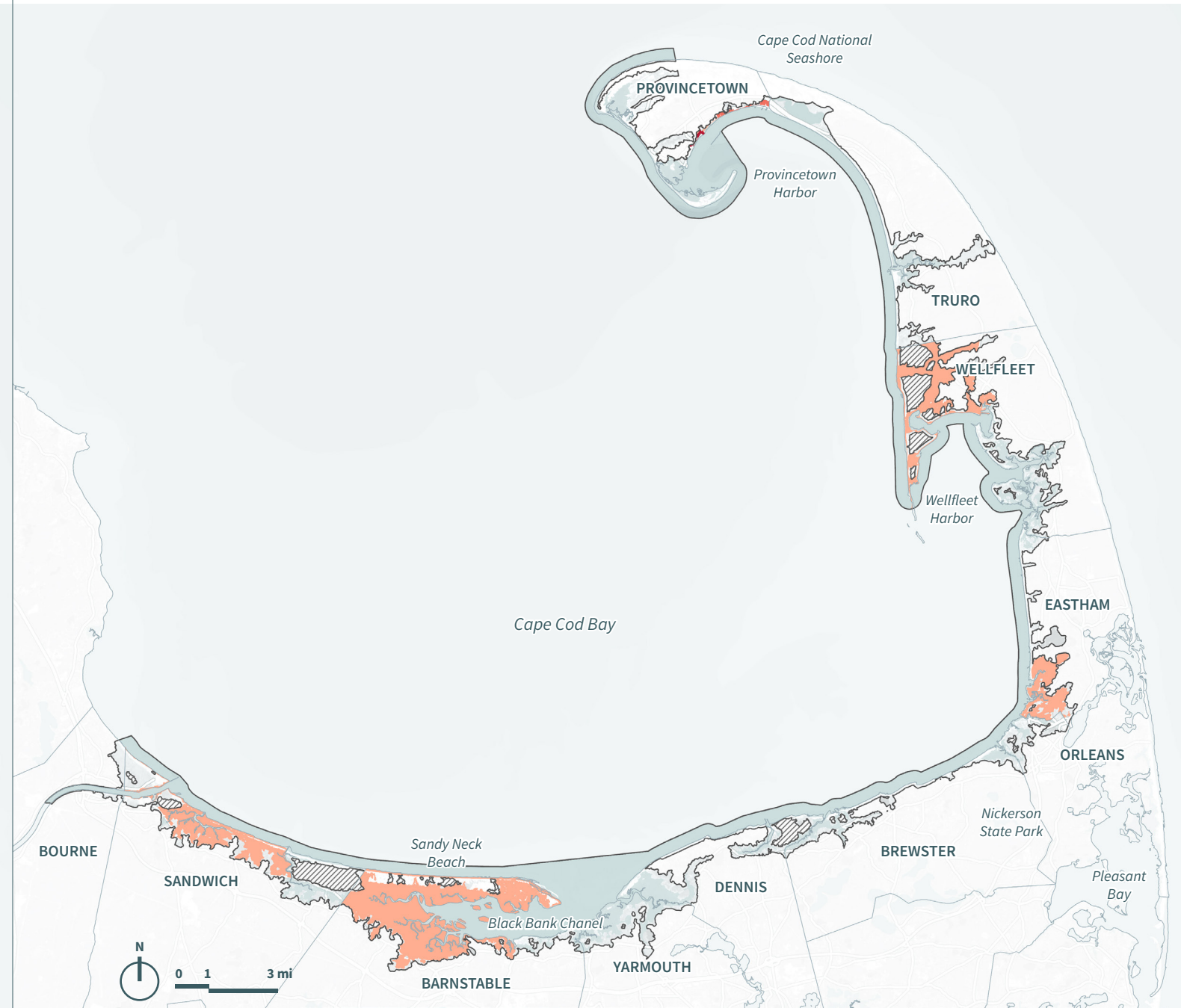
Concentration of Vulnerability (Percentiles):



Map 35: Relative Concentration of Near-Term Vulnerability of Economy in North Cape Cod district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



Map 36: Relative Concentration of Near-Term Cross-Sector Vulnerability in North Cape Cod district.

DISTRICT 11

Outer Cape Cod

People & Housing

Concentration of Vulnerability (Percentiles):



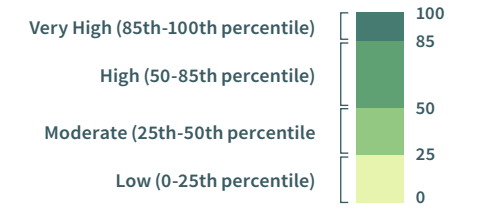
Evacuation and Isolation Risk Areas



Map 37: Relative Concentration of Near-Term Vulnerability of People & Housing in Outer Cape Cod district.

Built Infrastructure

Concentration of Vulnerability (Percentiles):



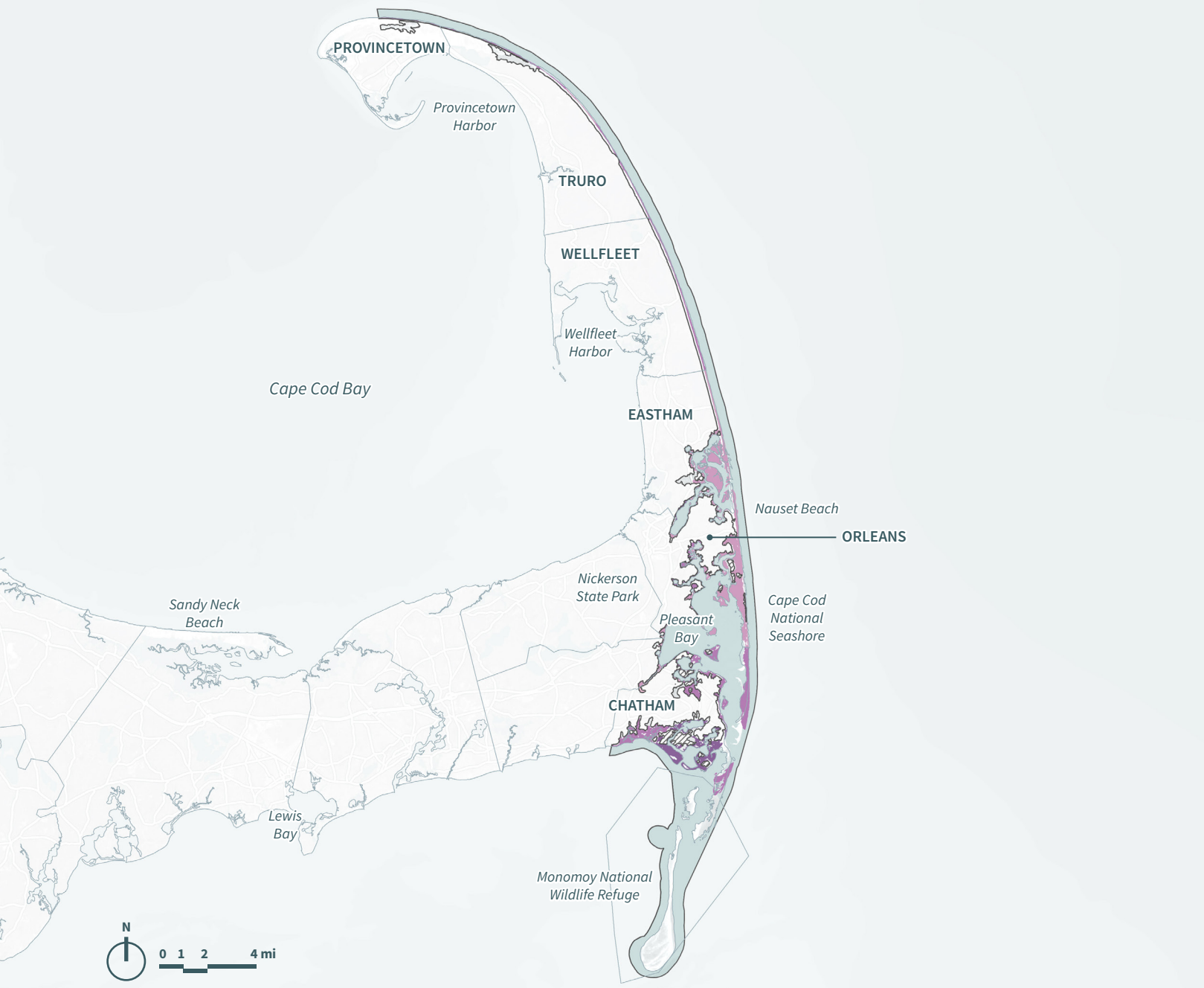
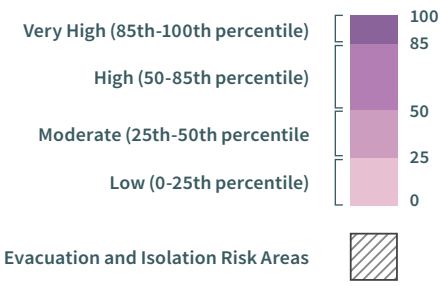
Evacuation and Isolation Risk Areas



Map 38: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in Outer Cape Cod district.

Economy

Concentration of Vulnerability (Percentiles):



Map 39: Relative Concentration of Near-Term Vulnerability of Economy in Outer Cape Cod district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:

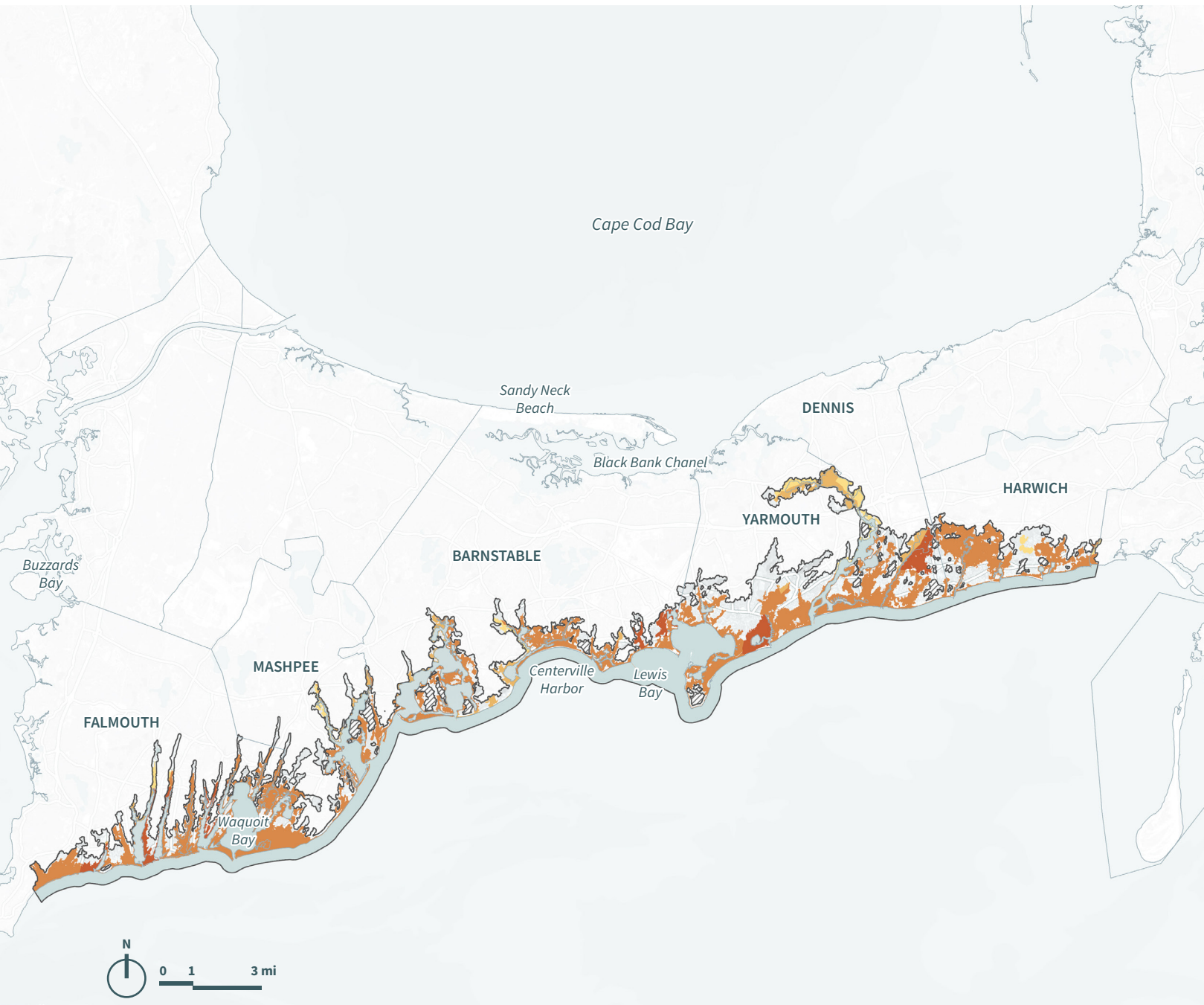
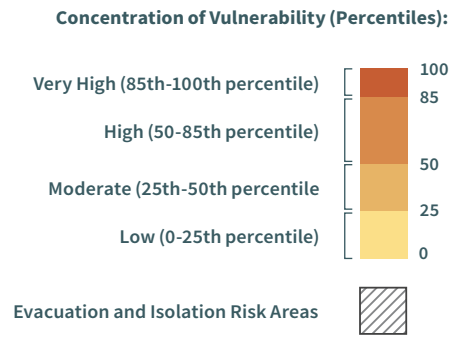


Map 40: Relative Concentration of Near-Term Cross-Sector Vulnerability in Outer Cape Cod district.

DISTRICT 12

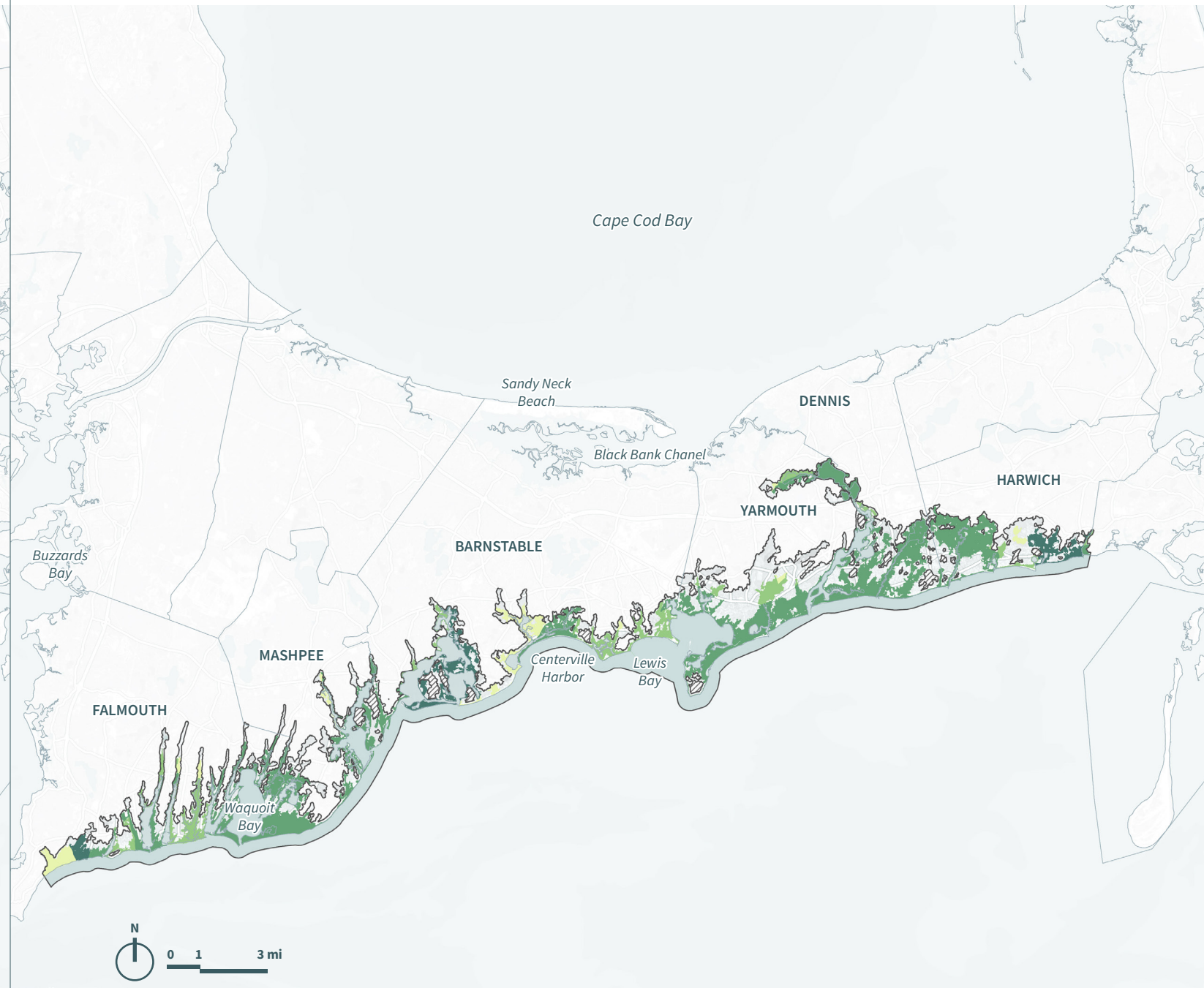
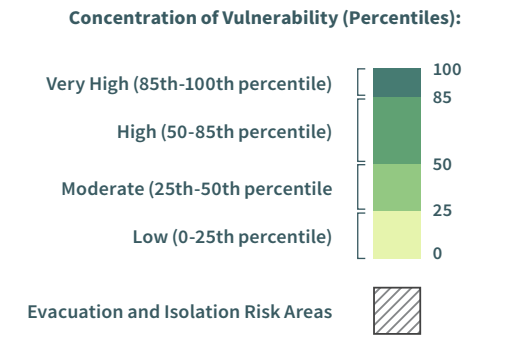
South Cape Cod

People & Housing



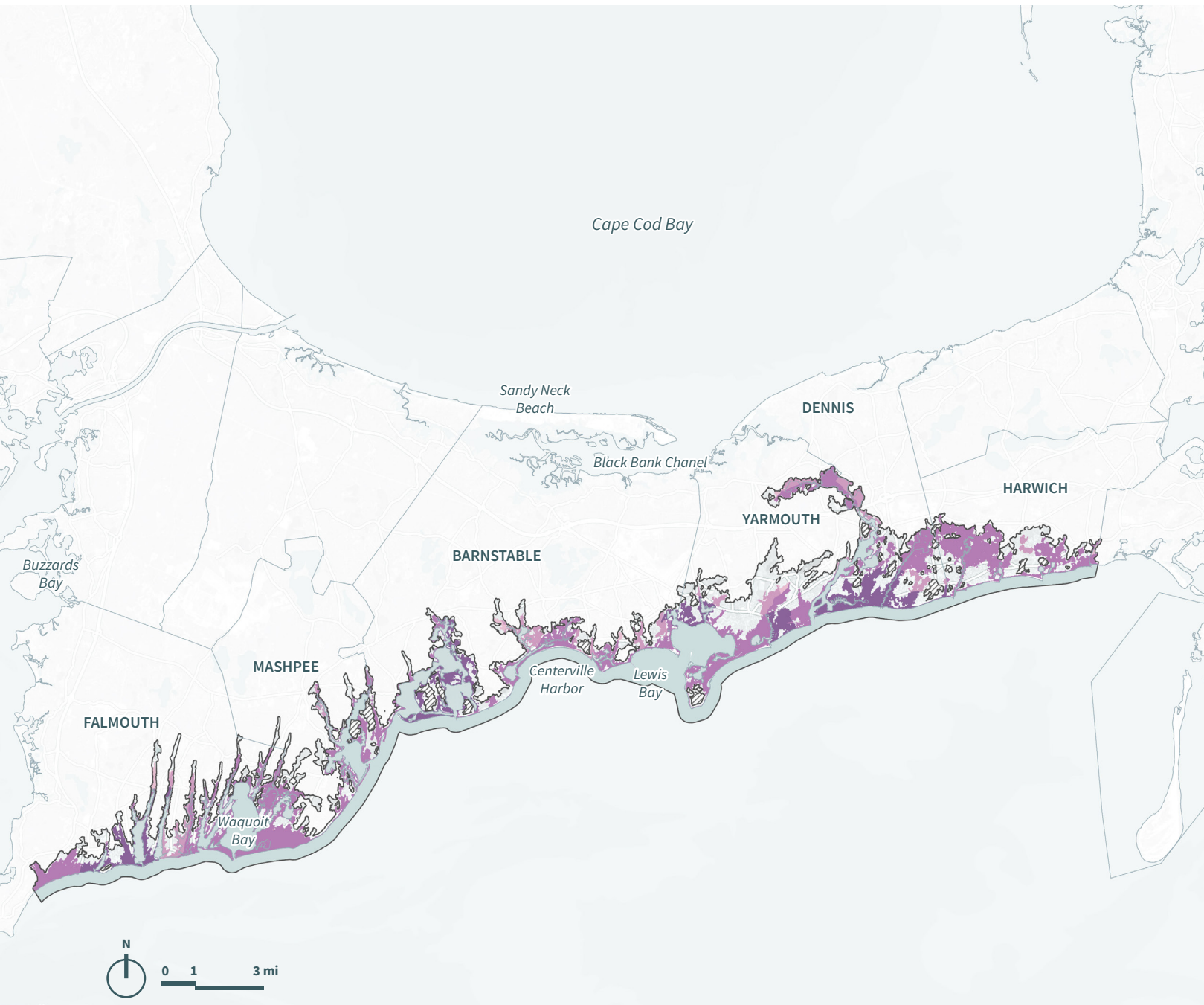
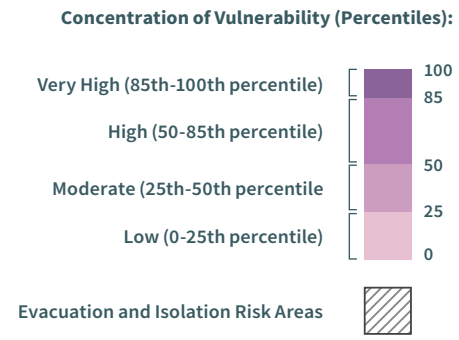
Map 41: Relative Concentration of Near-Term Vulnerability of People & Housing in South Cape Cod district.

Built Infrastructure



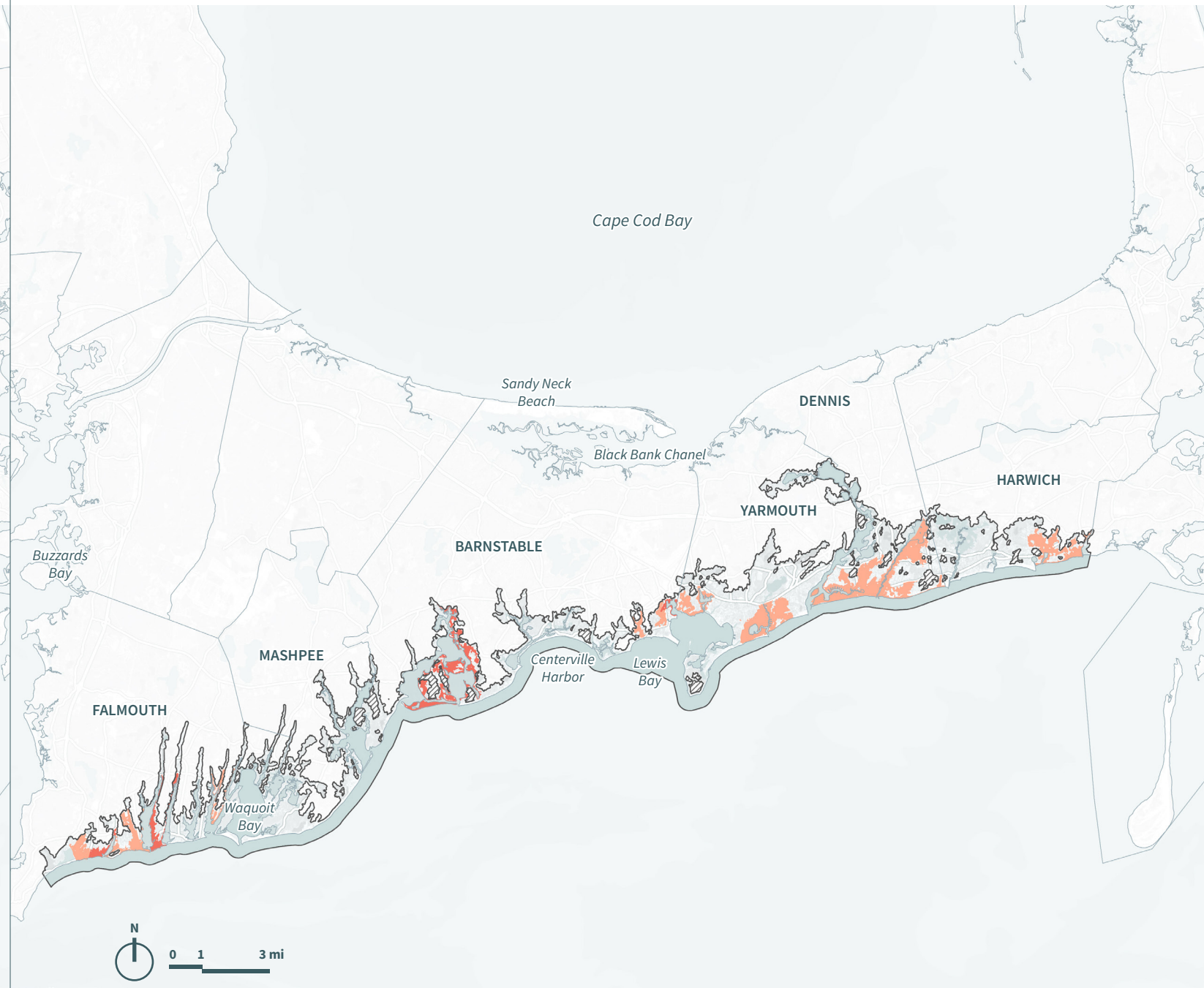
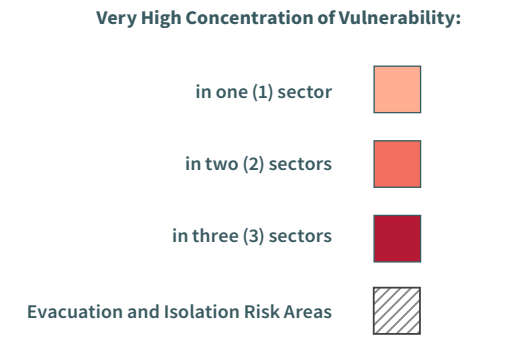
Map 42: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in South Cape Cod district.

Economy



Map 43: Relative Concentration of Near-Term Vulnerability of Economy in South Cape Cod district.

Cross-Sector Vulnerability

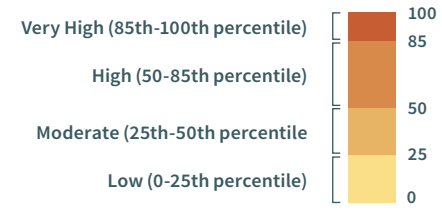


Map 44: Relative Concentration of Near-Term Cross-Sector Vulnerability in South Cape Cod district.

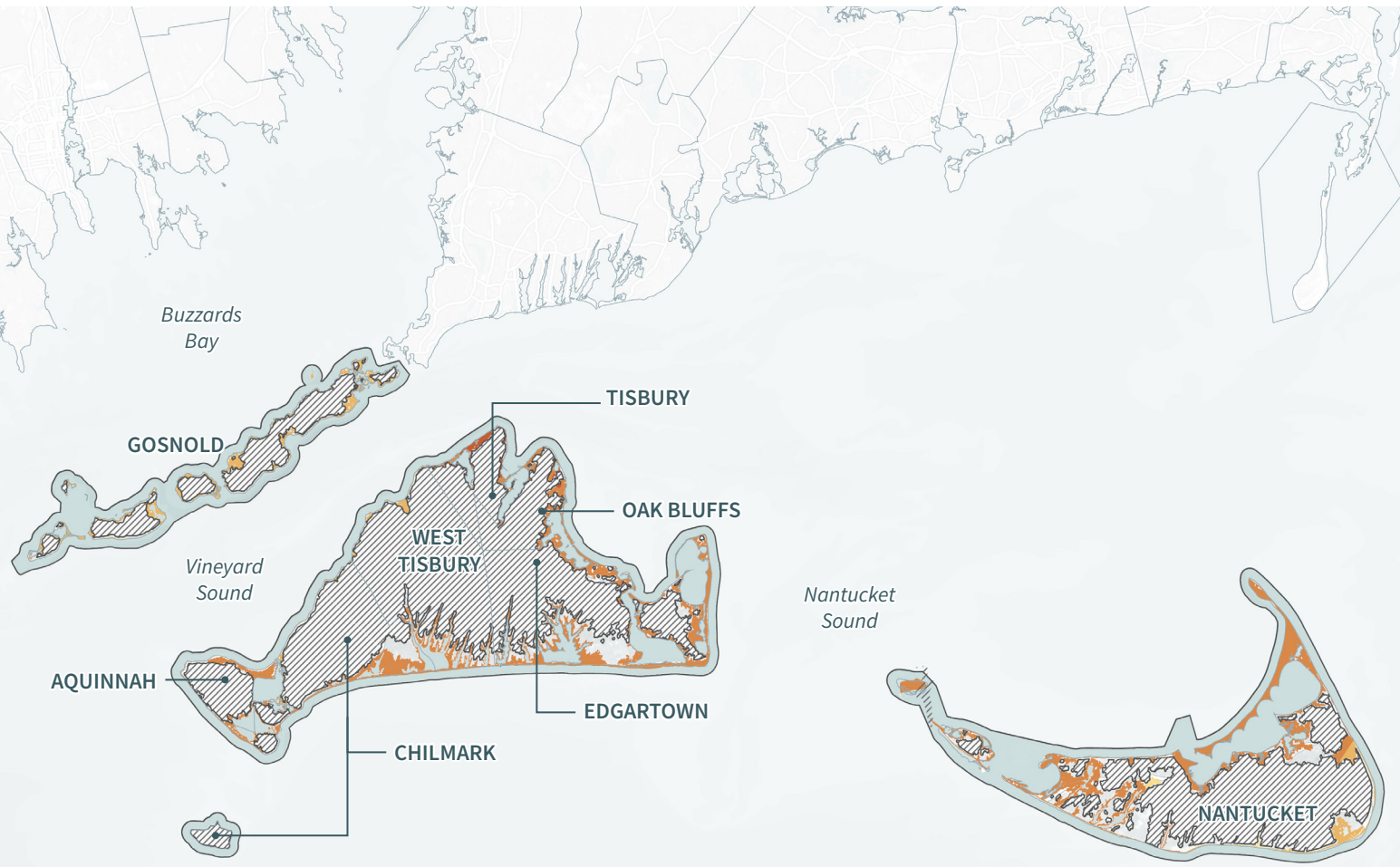
DISTRICT 13 Islands

People & Housing

Concentration of Vulnerability (Percentiles):



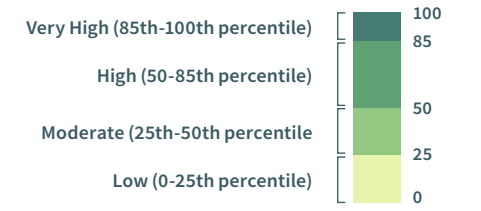
Evacuation and Isolation Risk Areas



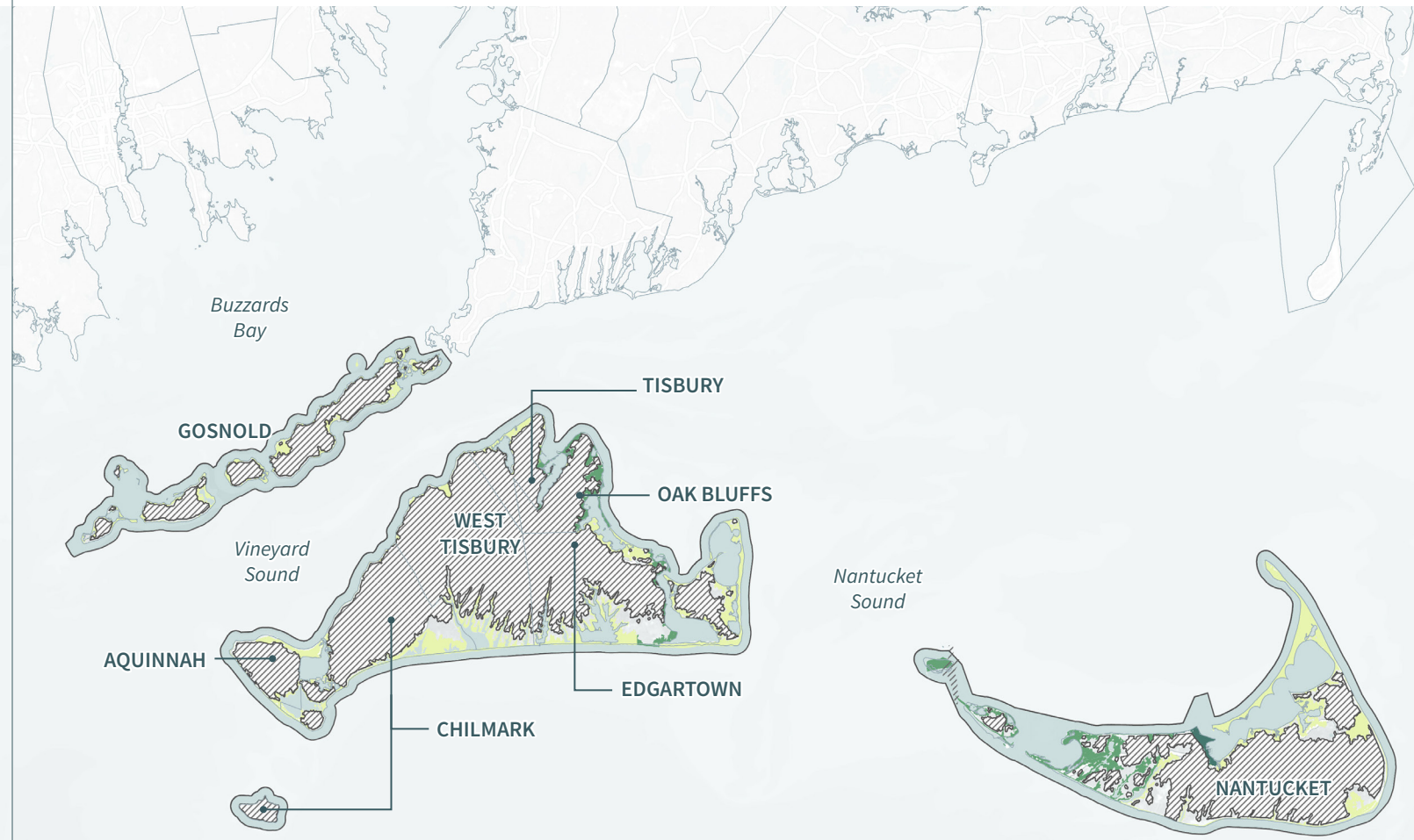
Map 45: Relative Concentration of Near-Term Vulnerability of People & Housing in the Islands district.

Built Infrastructure

Concentration of Vulnerability (Percentiles):



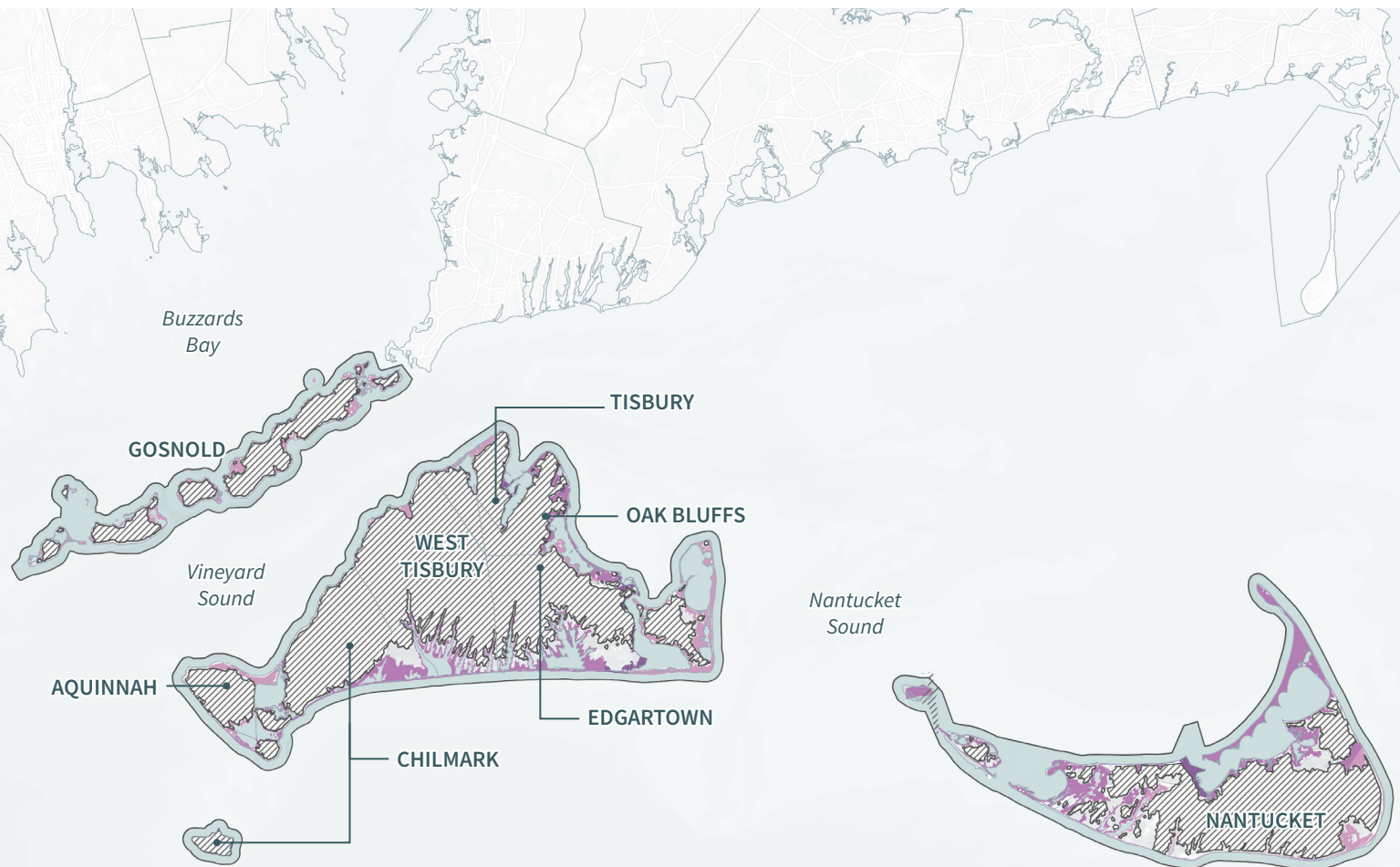
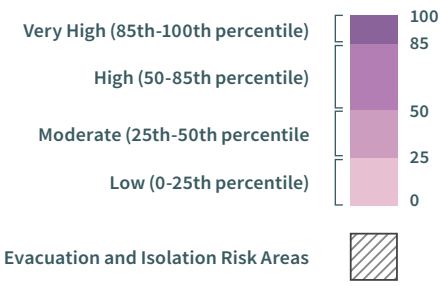
Evacuation and Isolation Risk Areas



Map 46: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in the Islands district.

Economy

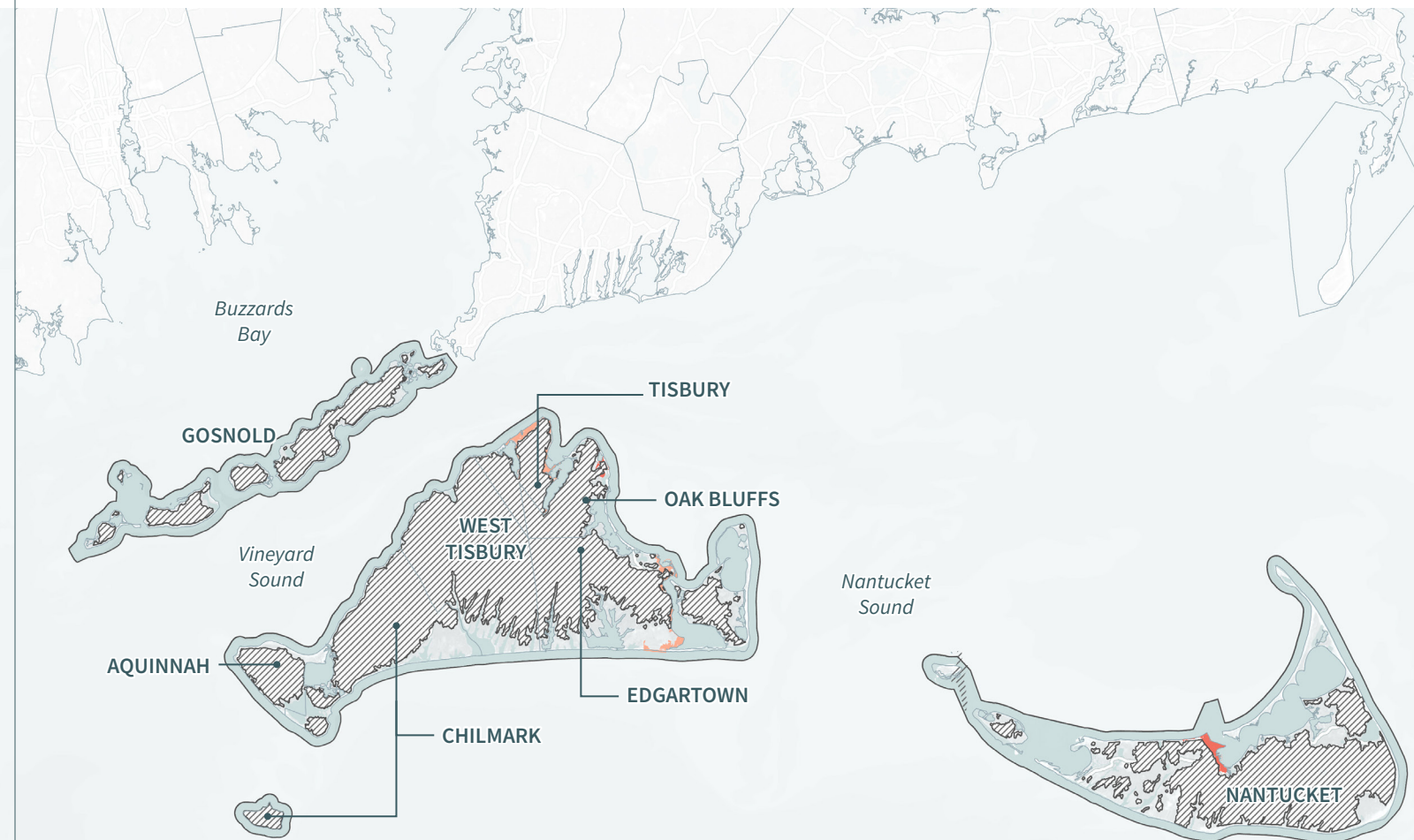
Concentration of Vulnerability (Percentiles):



Map 47: Relative Concentration of Near-Term Vulnerability of Economy in the Islands district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



Map 48: Relative Concentration of Near-Term Cross-Sector Vulnerability in the Islands district.

DISTRICT 14

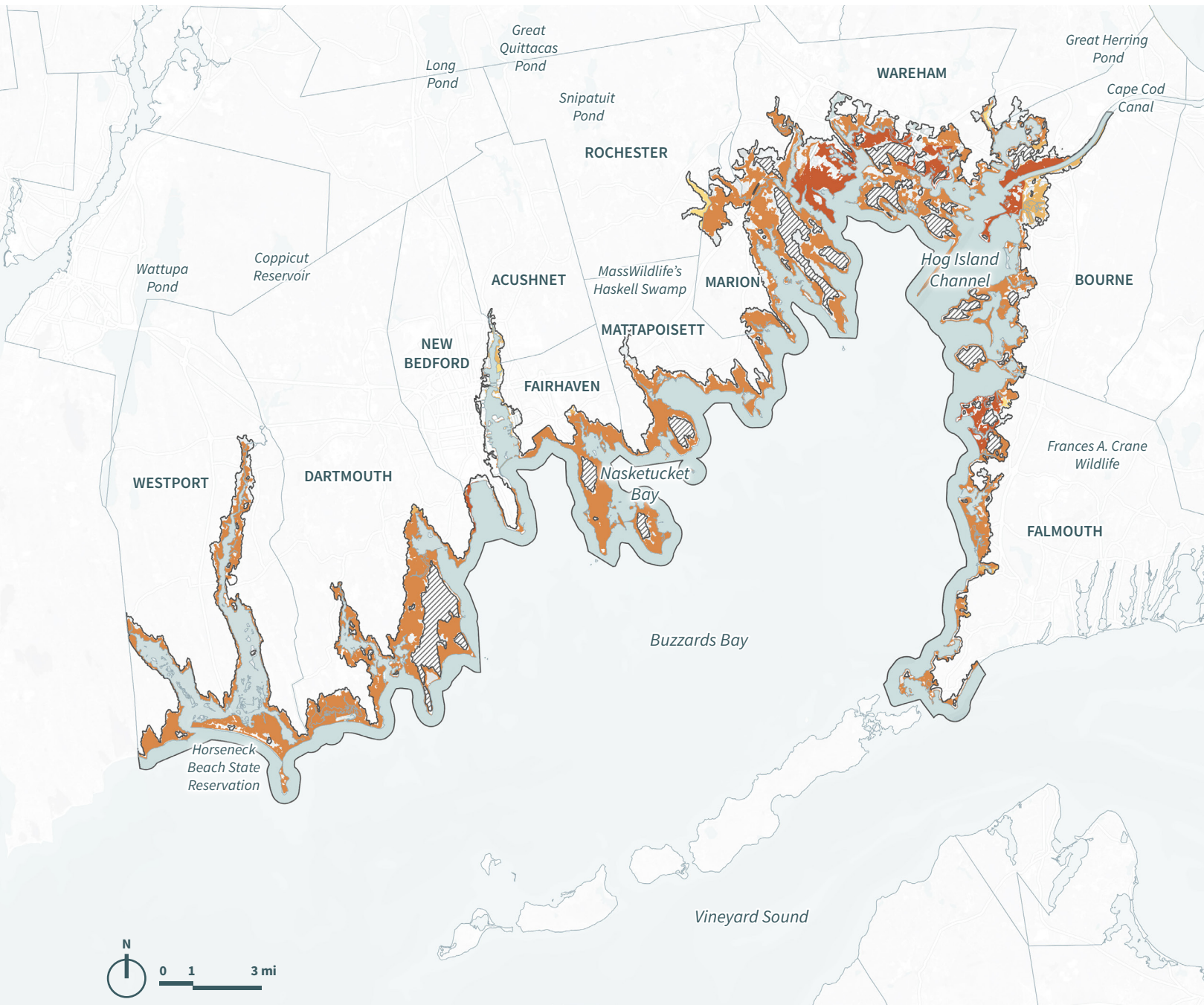
Buzzards Bay

People & Housing

Concentration of Vulnerability (Percentiles):



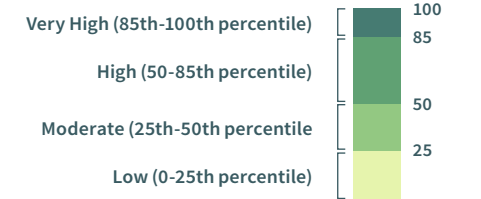
Evacuation and Isolation Risk Areas



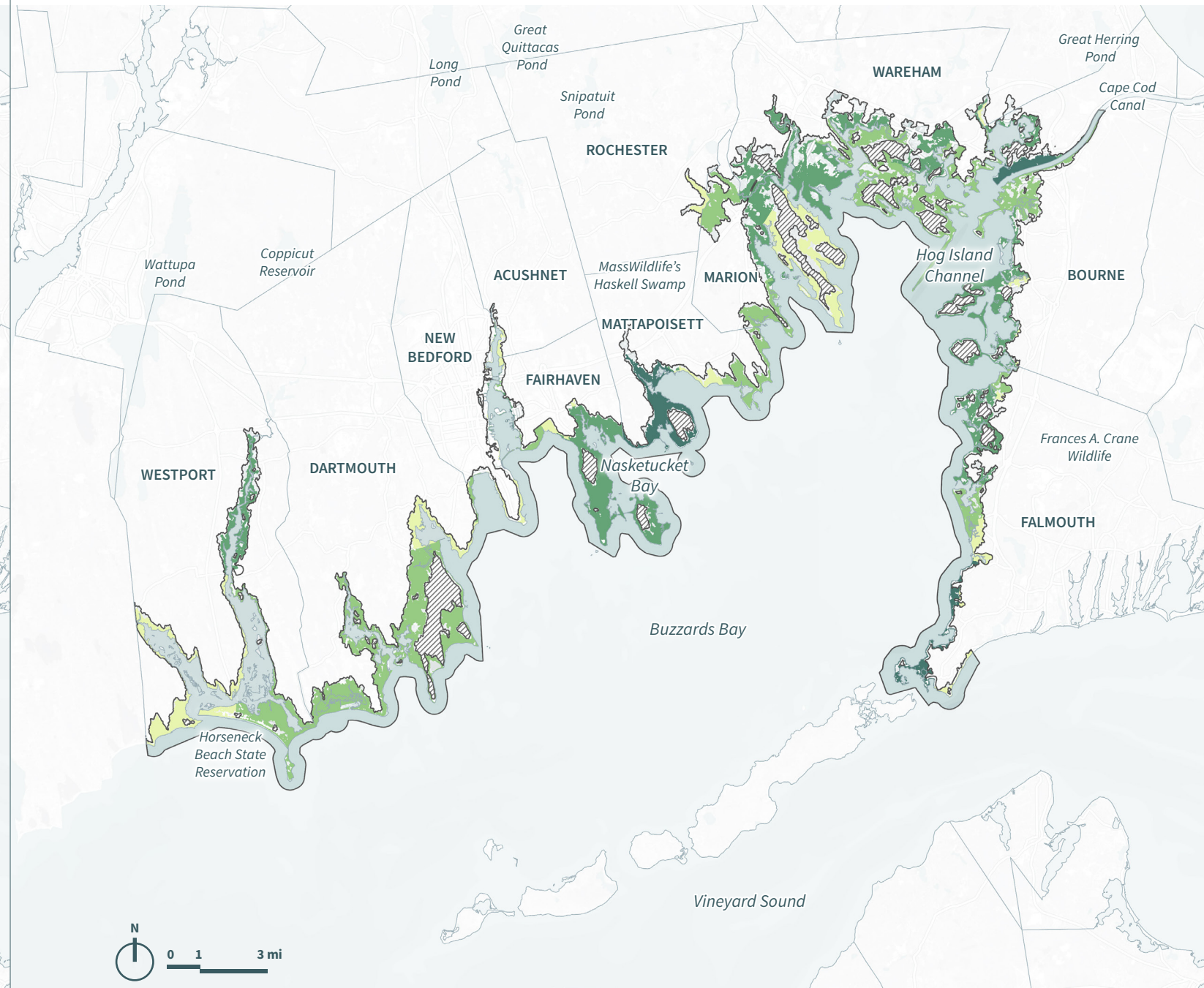
Map 49: Relative Concentration of Near-Term Vulnerability of People & Housing in Buzzards Bay district.

Built Infrastructure

Concentration of Vulnerability (Percentiles):



Evacuation and Isolation Risk Areas



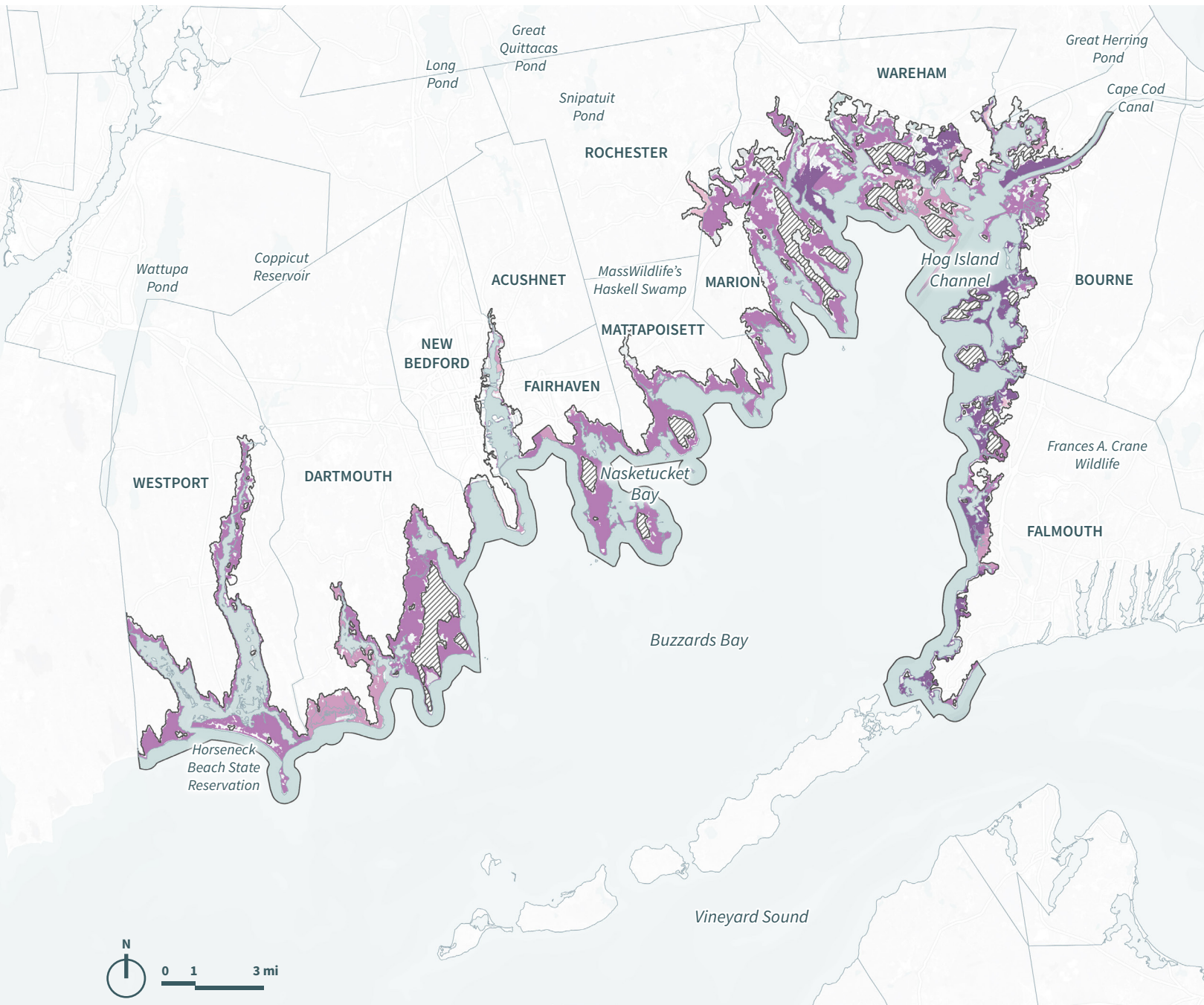
Map 50: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in Buzzards Bay district.

Economy

Concentration of Vulnerability (Percentiles):



Evacuation and Isolation Risk Areas



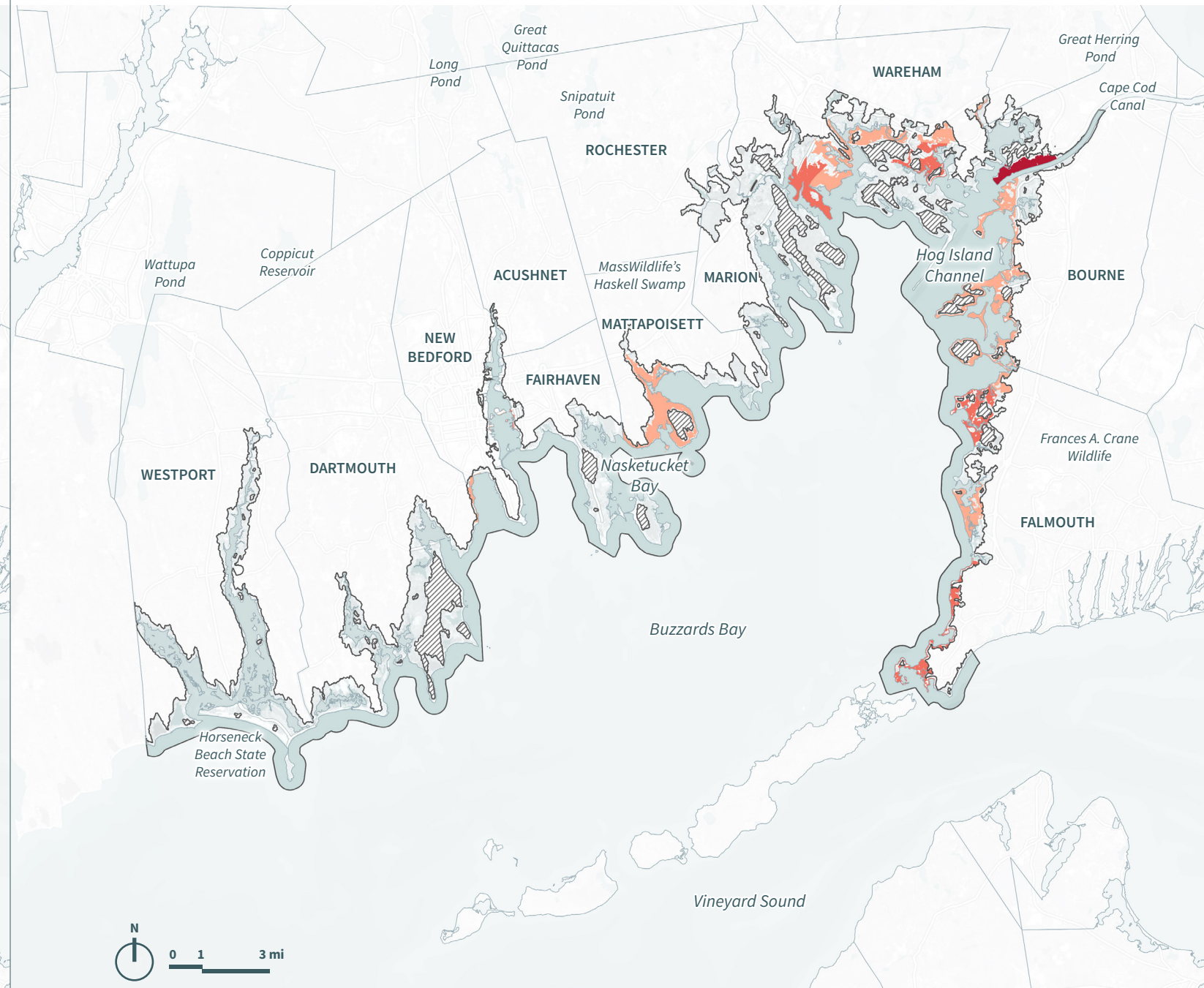
Map 51: Relative Concentration of Near-Term Vulnerability of Economy in Buzzards Bay district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



Evacuation and Isolation Risk Areas



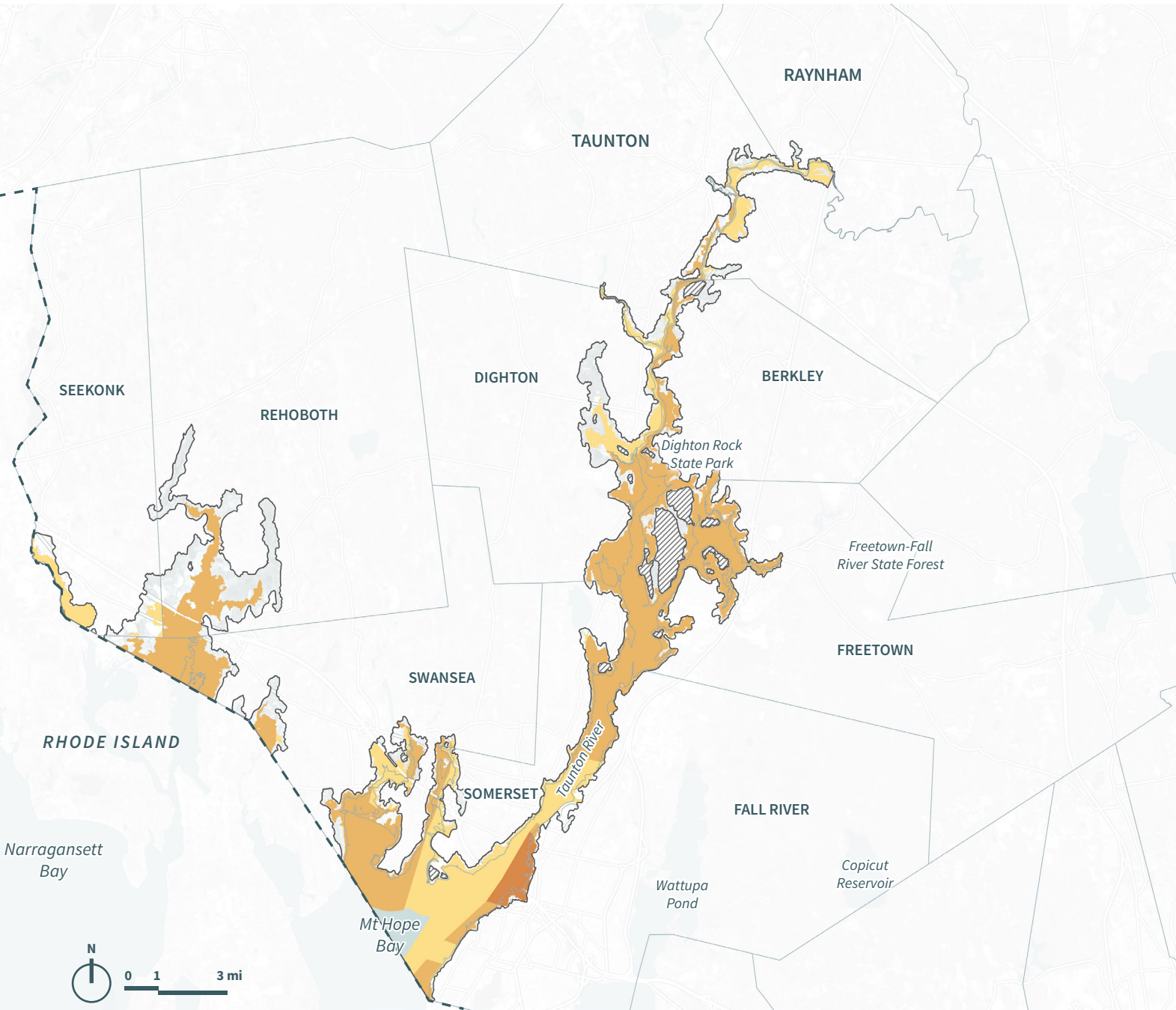
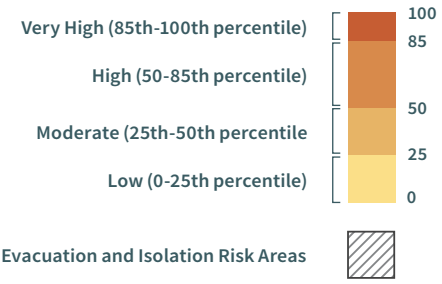
Map 52: Relative Concentration of Near-Term Cross-Sector Vulnerability in Buzzards Bay district.

DISTRICT 15

Taunton Watershed

People & Housing

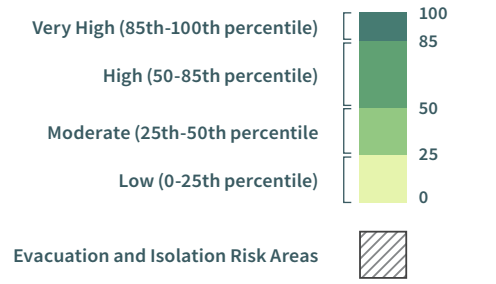
Concentration of Vulnerability (Percentiles):



Map 53: Relative Concentration of Near-Term Vulnerability of People & Housing in Taunton Watershed district.

Built Infrastructure

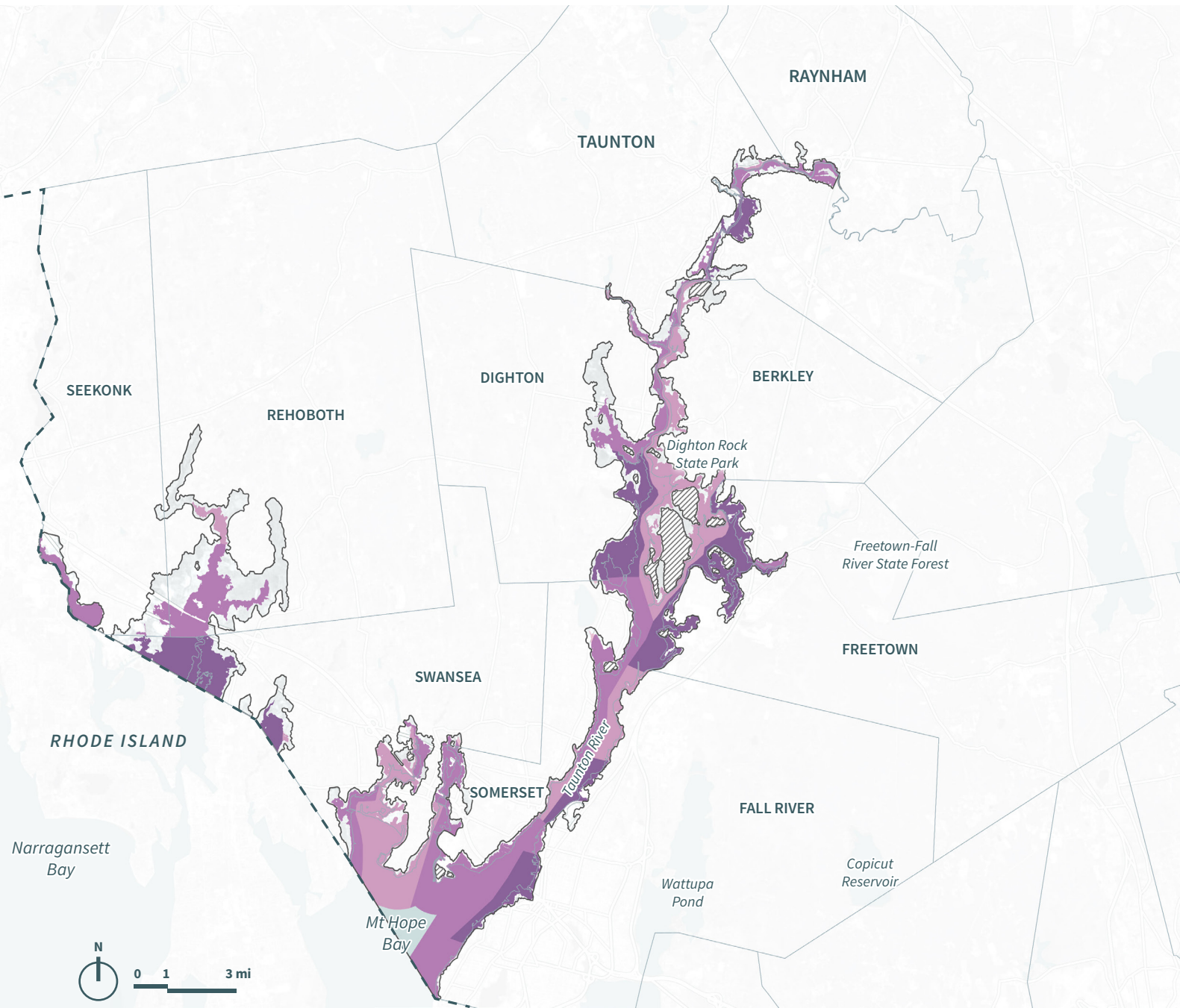
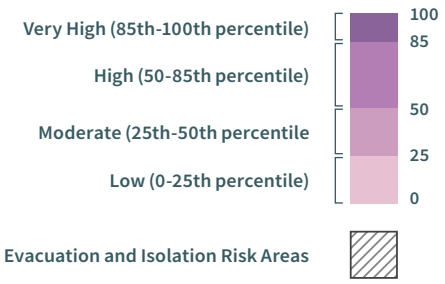
Concentration of Vulnerability (Percentiles):



Map 54: Relative Concentration of Near-Term Vulnerability of Built Infrastructure in Taunton Watershed district.

Economy

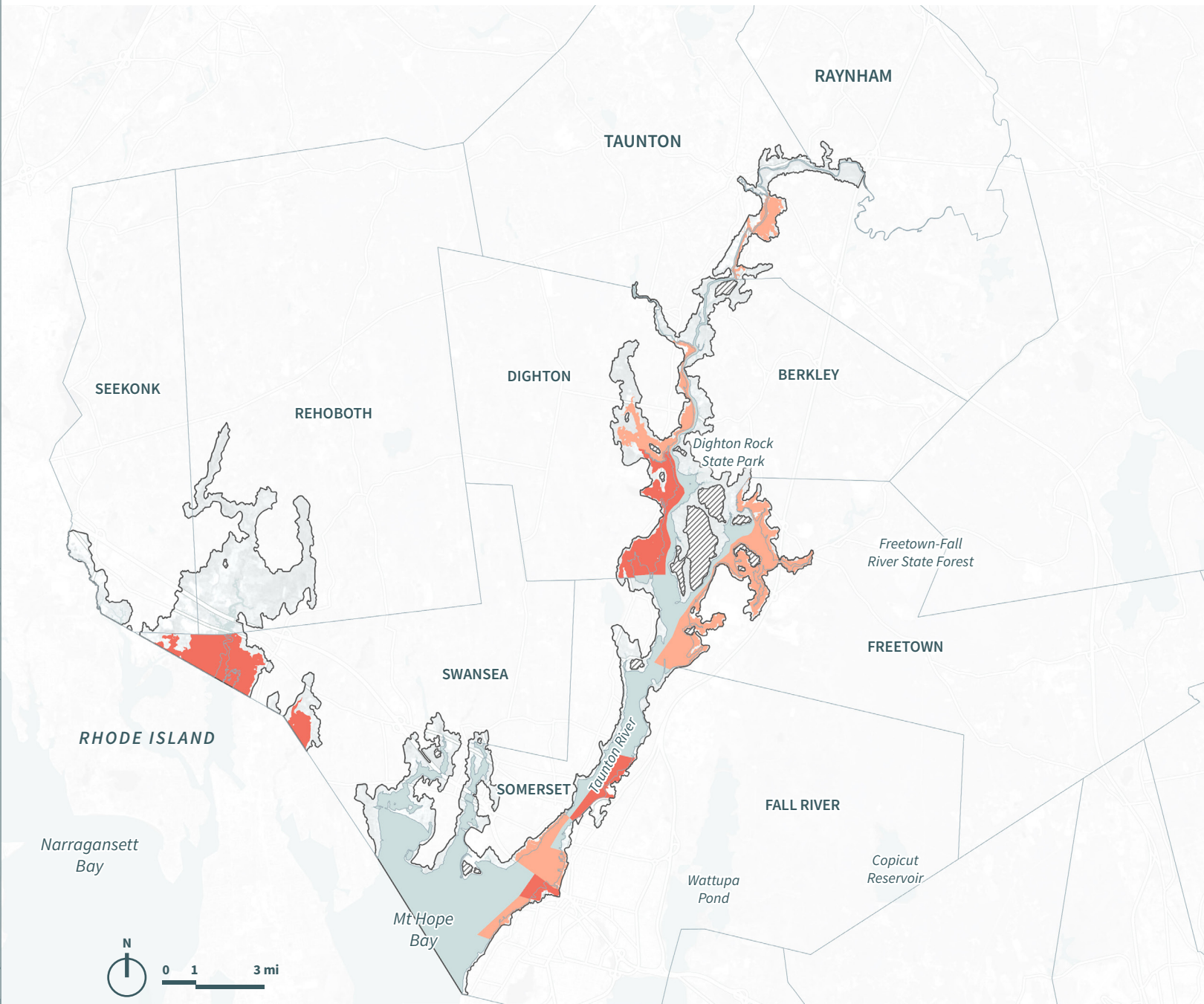
Concentration of Vulnerability (Percentiles):



Map 55: Relative Concentration of Near-Term Vulnerability of Economy in Taunton Watershed district.

Cross-Sector Vulnerability

Very High Concentration of Vulnerability:



Map 56: Relative Concentration of Near-Term Cross-Sector Vulnerability in Taunton Watershed district.



ResilientCoasts Initiative

mass.gov