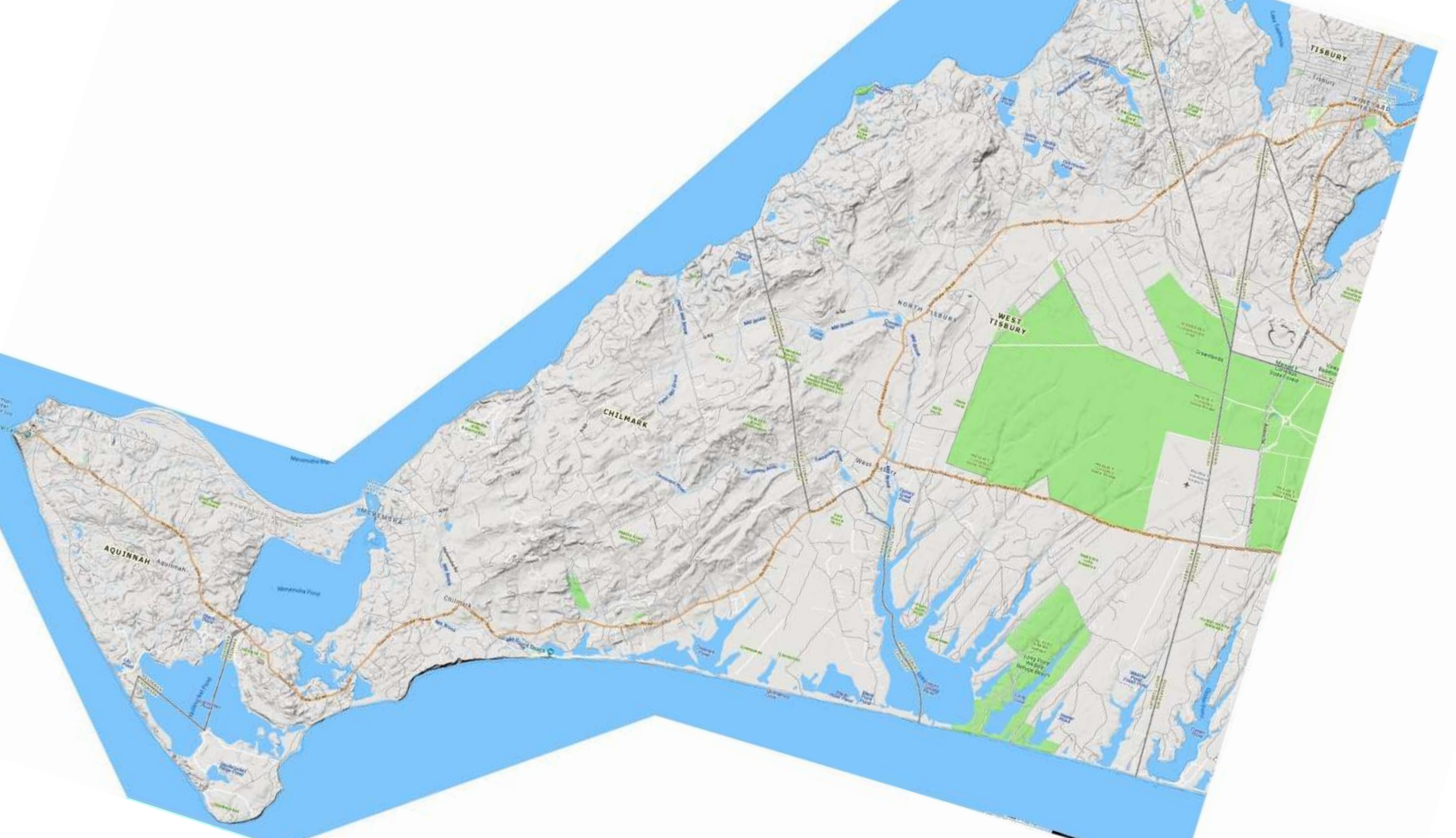
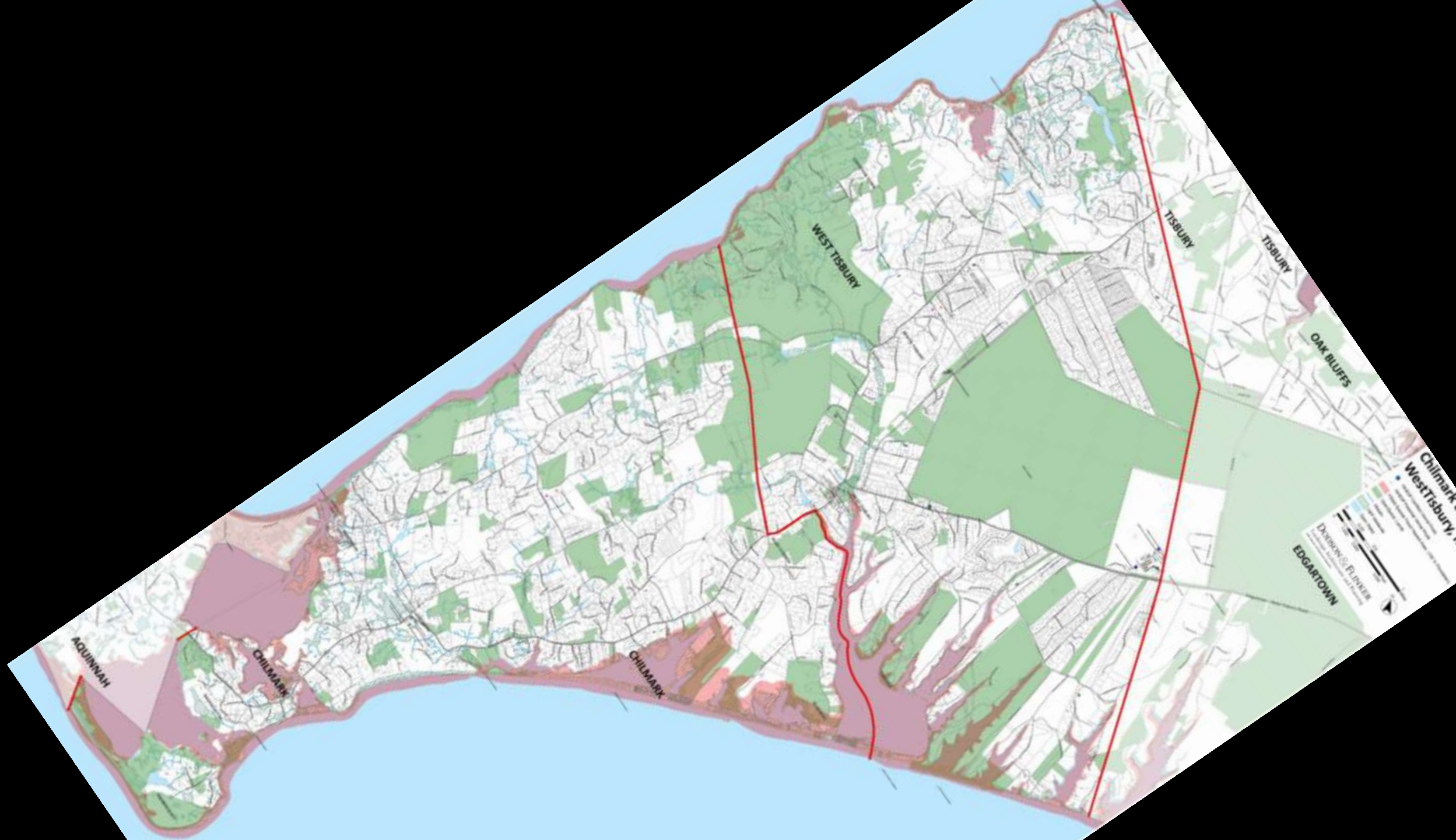


The MVP Process in Chilmark and West Tisbury













WHO LIVES IN WEST TISBURY?

WEST TISBURY HAS A MID-SIZED YEAR-ROUND POPULATION



16% of the year-round population of Martha's Vineyard (2,727 residents)

Source: 2010-14 ACS

THE PROJECTED YEAR-ROUND POPULATION INCREASE IS COMPARABLE TO PROJECTED ISLAND-WIDE GROWTH

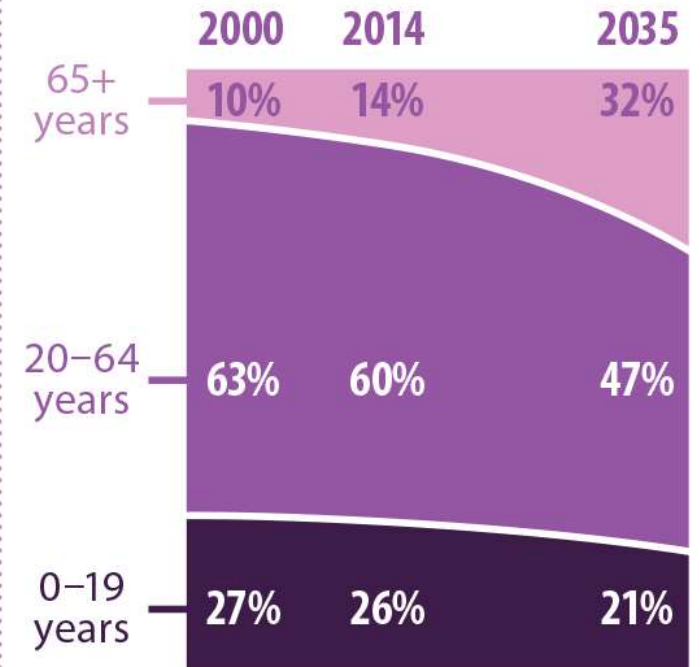
PROJECTED YEAR-ROUND POPULATION FROM 2010 TO 2035:



West Tisbury's year-round population is expected to increase from 2,740 in 2010 to 3,108 in 2035.

Source: 2010 US Census and UMass Donahue Institute Population Projections

SMALLER WORKING-AGE POPULATION WITH GROWTH OF OLDER ADULTS BY 2035

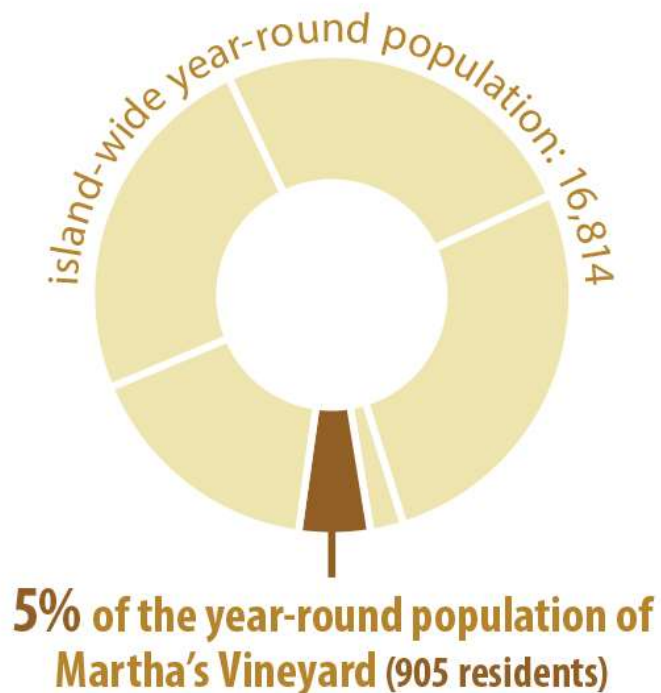


Source: 2000 US Census, 2010-2014 ACS, and UMass Donahue Institute Population Projections



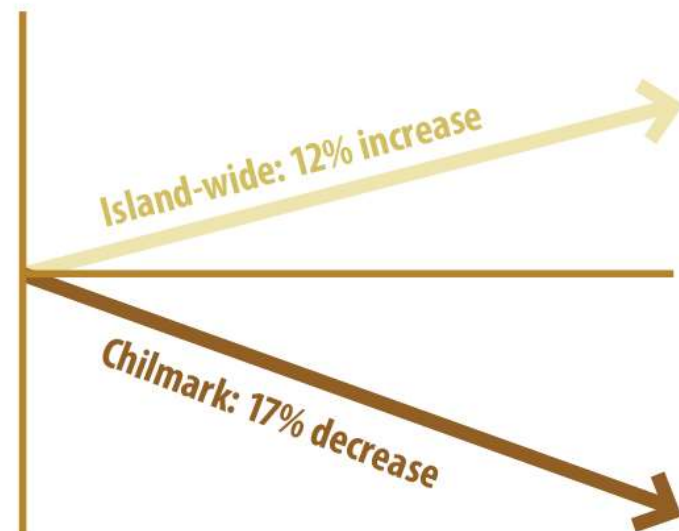
WHO LIVES IN CHILMARK?

CHILMARK HAS A SMALL YEAR-ROUND POPULATION



THE YEAR-ROUND POPULATION MAY SIGNIFICANTLY DECREASE

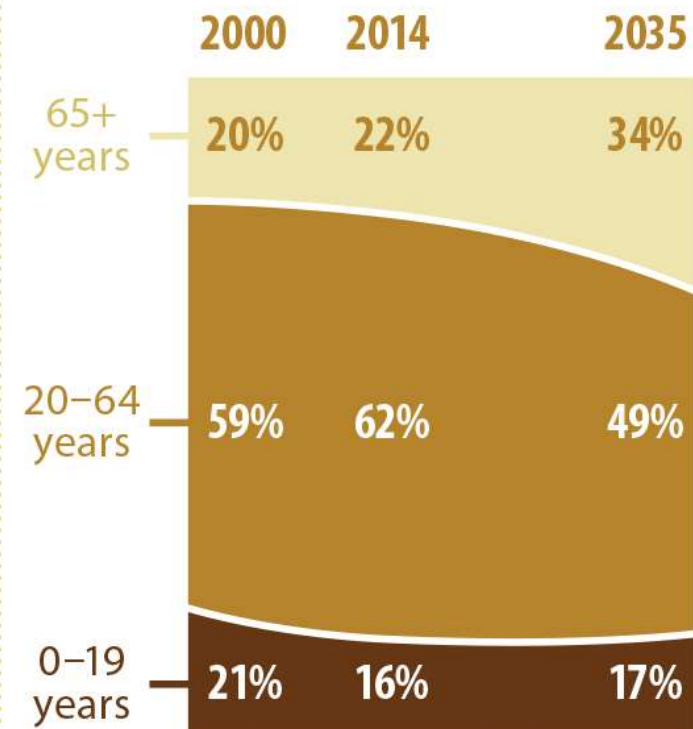
PROJECTED YEAR-ROUND POPULATION FROM 2010 TO 2035:



Chilmarks's year-round population is expected to drop from 866 in 2010 to 718 in 2035.

Source: 2010 US Census and UMass Donahue Institute Population Projections

FEWER WORKING-AGE ADULTS AND MORE OLDER ADULTS BY 2035



Source: 2000 US Census, 2010-2014 ACS, and UMass Donahue Institute Population Projections

Workshop 1: Hazards and Vulnerabilities

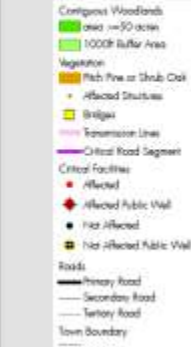


Workshop 1: Hazards and Vulnerabilities

- Sea level rise
- Flooding and wind from hurricanes and nor'easters
- Ecosystem change resulting in increased vector borne diseases (such as Lyme)
- Wildfire
- Drought

Wildland Urban Interface West Tisbury, MA

Pre-Disaster Mitigation Plan



NOTES:
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of May 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

Woodlands buffer areas identified from the 2009 land use data from MassGIS. Forested land was more buffered 2009 and the forest area that did not overlap the buffer plus 2009 was retained. These contiguous forest areas of 50 acres or more are represented in this data layer.

A structure is considered within the wildfire threat area if it is within a contiguous 50-acre woodland area or within a 1000ft buffer area or within the existing pitch pine/shrub oak area.

DISCLAIMER:
Data provided not for planning purposes only. The data are not intended for liability determination or regulatory interpretation. The MFC cannot be responsible for how these data are used or interpreted by the end user.

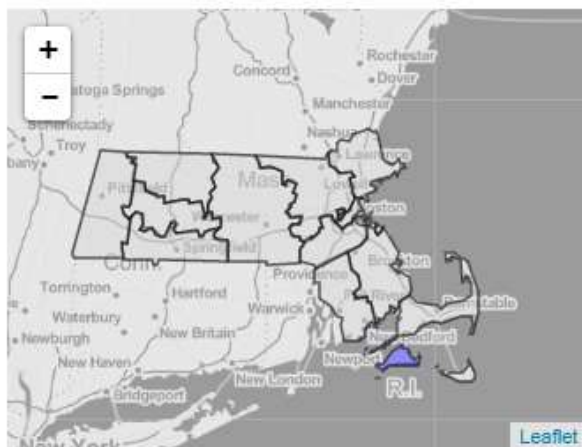
Compiled by: Martha's Vineyard Commission, 12/2012, 3/13/13, 6/13/13, 9/13/13, 12/13/13, 3/14/14, 6/14/14, 9/14/14, 12/14/14, 3/15/15, 6/15/15, 9/15/15, 12/15/15, 3/16/16, 6/16/16, 9/16/16, 12/16/16, 3/17/17, 6/17/17, 9/17/17, 12/17/17, 3/18/18, 6/18/18, 9/18/18, 12/18/18, 3/19/19, 6/19/19, 9/19/19, 12/19/19, 3/20/20, 6/20/20, 9/20/20, 12/20/20, 3/21/21, 6/21/21, 9/21/21, 12/21/21, 3/22/22, 6/22/22, 9/22/22, 12/22/22, 3/23/23, 6/23/23, 9/23/23, 12/23/23, 3/24/24, 6/24/24, 9/24/24, 12/24/24, 3/25/25, 6/25/25, 9/25/25, 12/25/25, 3/26/26, 6/26/26, 9/26/26, 12/26/26, 3/27/27, 6/27/27, 9/27/27, 12/27/27, 3/28/28, 6/28/28, 9/28/28, 12/28/28, 3/29/29, 6/29/29, 9/29/29, 12/29/29, 3/30/30, 6/30/30, 9/30/30, 12/30/30, 3/31/31, 6/31/31, 9/31/31, 12/31/31, 3/32/32, 6/32/32, 9/32/32, 12/32/32, 3/33/33, 6/33/33, 9/33/33, 12/33/33, 3/34/34, 6/34/34, 9/34/34, 12/34/34, 3/35/35, 6/35/35, 9/35/35, 12/35/35, 3/36/36, 6/36/36, 9/36/36, 12/36/36, 3/37/37, 6/37/37, 9/37/37, 12/37/37, 3/38/38, 6/38/38, 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County ▾ Dukes County, MA ▾

Calculated Variable:

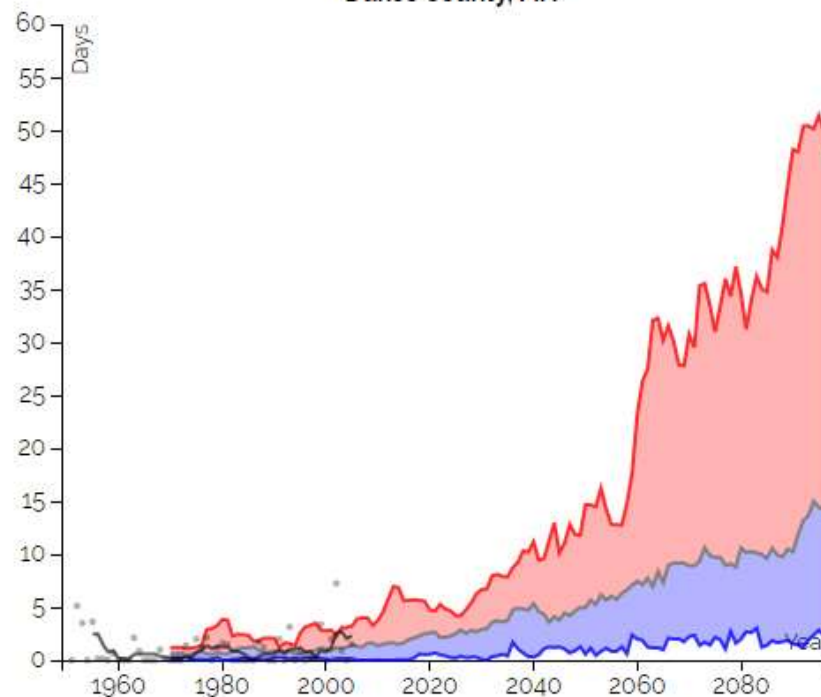
Days with Maximum Temperature Above 90°F ▾

Season: Annual ▾



Add Chart

Annual Days with Maximum Temperature Above 90°F Dukes County, MA



Download Data

Observed

days

5-yr Mean

Modeled days

Max

Median

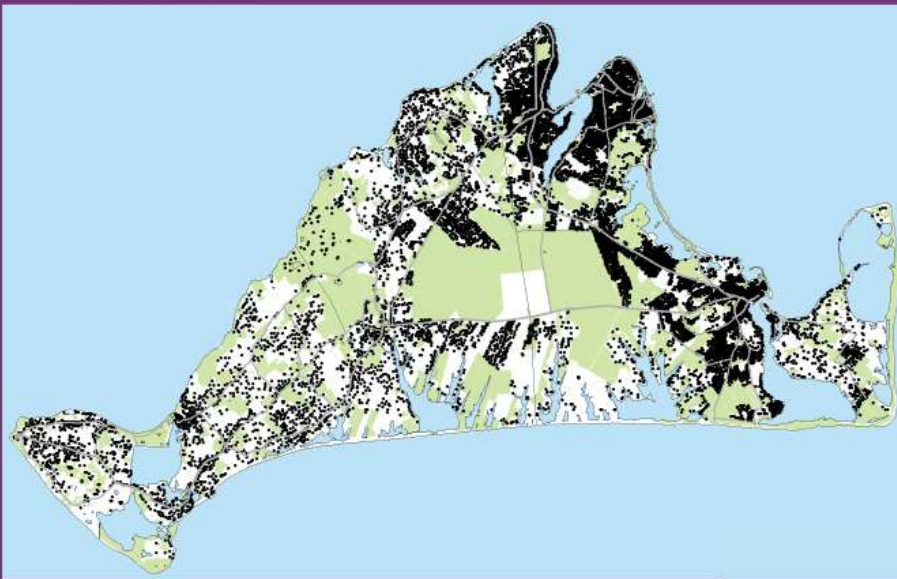
Min

Changes from
1971-2000 for:

2020 -	3.48
2049	days
2040 -	5.70
2069	days
2060 -	9.09
2089	days
2080 -	10.34
2097	days

About the Source
Data

Land Development Status (in acres)							
	AQ	CH	ED	OB	TI	WT	Total
Developed land	703	3,361	4,284	2,157	1,752	4,226	16,483
Protected open space	832	3,336	7,257	1,273	944	7,078	20,720
Wetland	389	520	710	119	163	269	2,170
Available land	1,494	4,406	4,965	1,131	1,340	4,479	17,815
Total Area	3,418	11,623	17,216	4,680	4,199	16,052	57,188



Buildings Today: Houses and other buildings.



Buildings 50 Years From Now: Possible new houses and other buildings (red) based on available land and current zoning.

Massachusetts Sea Level Rise and Coastal Flooding Viewer

Interactive maps of coastal flooding areas and community facilities and infrastructure based on: sea level rise scenarios, Federal Emergency Management Agency coastal flood zones, and hurricane surge models.

Intro

Sea Level Rise

FEMA Coastal Flood Zones





Hurricane Surge

This map includes four worst-case scenarios of storm surge based on thousands of modeled combinations of hurricane intensity (Category 1-4), forward speed, track or direction, and other factors **not including sea level rise**. The National Oceanic and Atmospheric Administration (NOAA) National Hurricane Center, in partnership with the U.S. Army Corps of Engineers (USACE), uses the Sea, Lake, and Overland Surges from Hurricanes (SLOSH) model to calculate the storm surge heights and map coastal areas with the highest degree of exposure.







Zoom in until the hurricane surge scenarios come into view. Community facilities and infrastructure are identified with an icon and facility outline. Click the icon for a pop-up box displaying the facility name, type, town or city, and the water level associated with the hurricane surge scenarios. Flood levels represent water depth in feet above 0 [NAVD 88](#), rather than above the ground surface. Coastal flood data can be directly compared for each facility by switching viewer tabs.

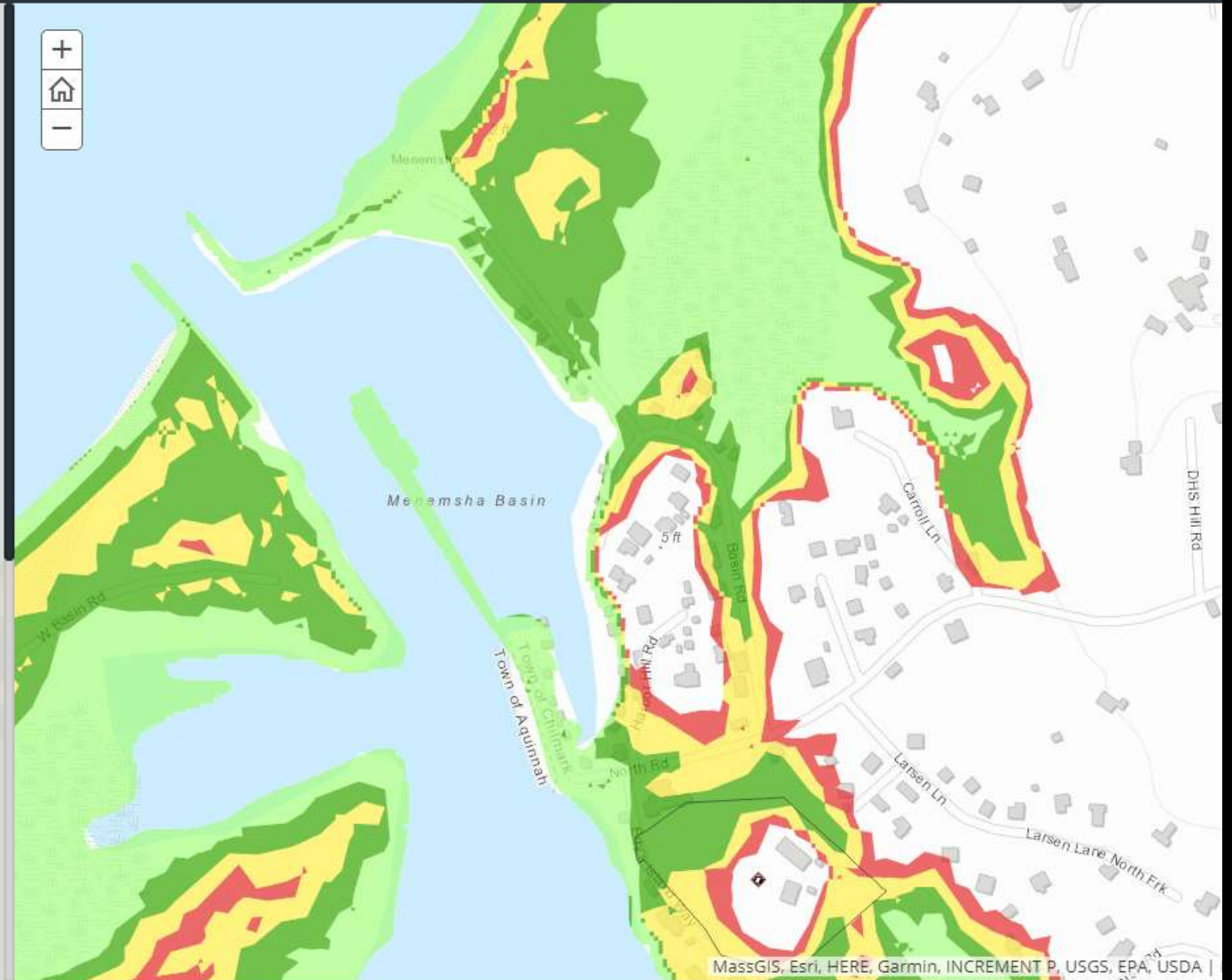
For planning purposes only. Hurricane surge data courtesy of USACE, October 2013. These data were mapped using current sea level. Please see the [technical report](#) (PDF, 272 KB) for data sources and processing steps.

Hurricane Surge Scenarios

-  Category 1
-  Category 2
-  Category 3
-  Category 4

Public Facilities and Infrastructure

-  Airport
-  Community Health Center
-  Electrical Generation Facility
-  Fire Station
-  Harbormaster
-  Hospital



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Interactive maps of coastal flooding areas and community facilities and infrastructure based on: sea level rise scenarios, Federal Emergency Management Agency coastal flood zones, and hurricane surge models.

Intro

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FEMA Coastal Flood Zones


Hurricane Surge

This map displays coastal areas with a **1% annual chance of flooding** (A and V zones). These high-risk flood zones are determined by the Federal Emergency Management Agency (FEMA) using models and historical data for storm tides and frequency. This map does not account for sea level rise.










Zoom in until the FEMA coastal flood zones come into view. Community facilities and infrastructure are identified with an icon (zoom in further, if necessary, to view the facility outline). Click the icon for a pop-up box displaying the facility name, type, and town or city. Water levels are provided for AE and VE zones under the FEMA coastal flood zone labels on the map when zoomed in to the appropriate extent. Flood levels represent water depth in feet above 0 [NAVD 88](#), rather than above the ground surface. Coastal flood data can be directly compared for each facility by switching viewer tabs.

For planning purposes only. Flood zone data courtesy of FEMA. These data represent the effective flood zones mapped using current sea level. Please see the [technical report](#) (PDF, 272 KB) for data sources and processing steps.

FEMA Coastal Flood Zones

 1% Annual Chance Flood Hazard (includes both A and V zones; zoom in to view zone labels)

Public Facilities and Infrastructure

-  Airport
-  Community Health Center
-  Electrical Generation Facility
-  Fire Station
-  Harbormaster
-  Hospital
-  Landfill
-  Library
-  Long-Term Care Residence
-  MBTA Commuter Rail Station



Massachusetts Sea Level Rise and Coastal Flooding Viewer

Interactive maps of coastal flooding areas and community facilities and infrastructure based on: sea level rise scenarios, Federal Emergency Management Agency coastal flood zones, and hurricane surge models.

Intro

Sea Level Rise

FEMA Coastal Flood Zones

Hurricane Surge

This map shows the National Oceanic and Atmospheric Administration (NOAA) modeling of coastal flooding above Mean Higher High Water (MHHW, the average height of daily highest tide) with six increasing levels of sea level rise (1-foot increments up to six feet). This map does not account for storm surge, waves, erosion, and other dynamic factors. Future updates to the viewer will include maps that depict water levels from storm-driven flooding under sea level rise scenarios. See CZM's [Sea Level Rise Guidance](#) (PDF, 3.0 MB) for more information on sea level rise rates and projections, as well as general advice in the selection and application of scenarios for coastal vulnerability assessments.

Zoom in until the mapped extents of the sea level rise scenarios come into view. Community facilities and infrastructure are identified with an icon and facility outline. Click the icon for a pop-up box displaying the facility name, type, town or city, and water levels under the sea level rise scenarios. Flood levels represent water depth in feet above 0 [NAVD 88](#), rather than above the ground surface. See the [Sea Level Rise Scenario figure](#) (PDF, 155 KB) for a visual representation of the information depicted on the map. Coastal flood data can be directly compared for each facility by switching viewer tabs.

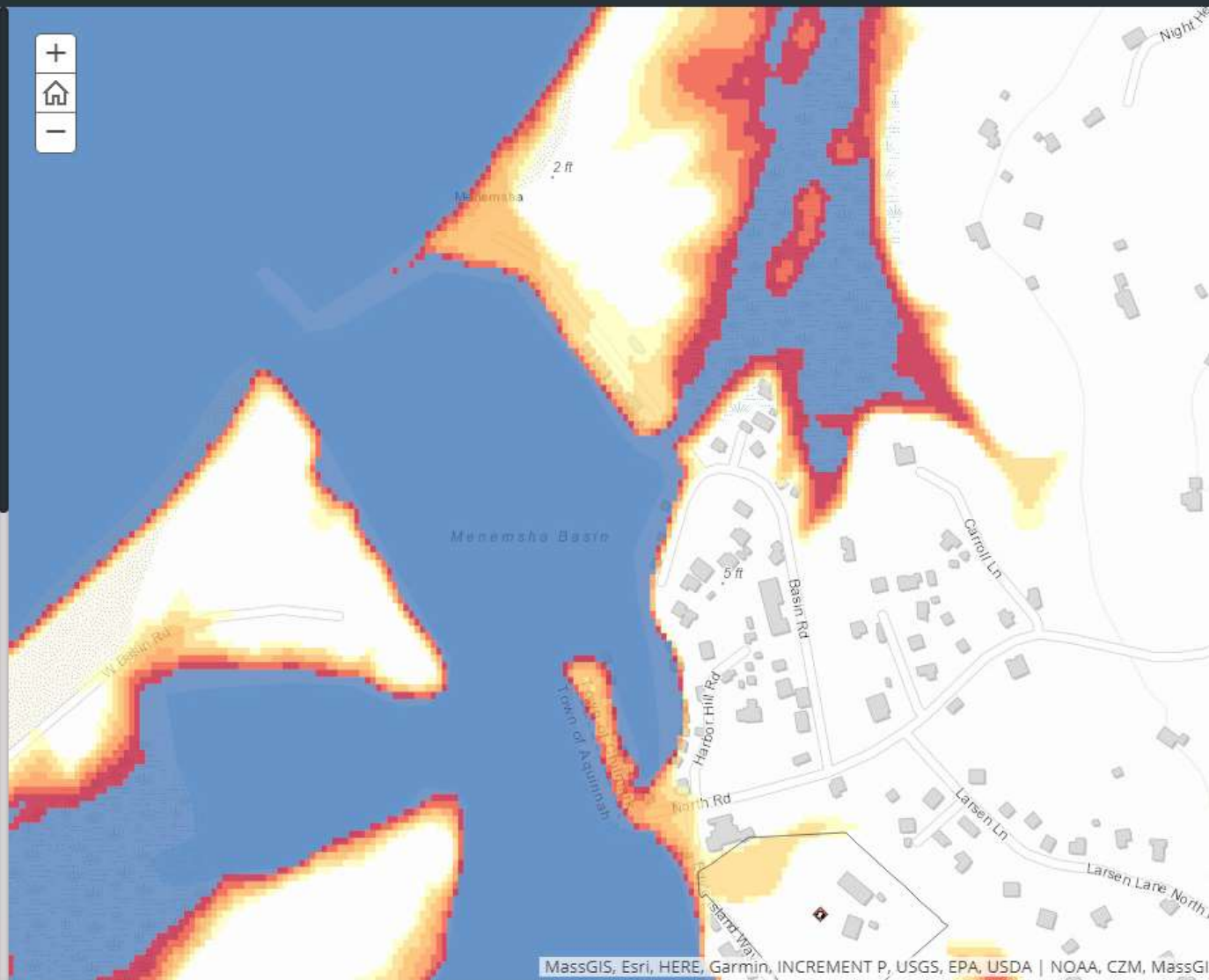
For planning purposes only. Sea level rise data courtesy of NOAA, January 2013. Please see the [technical report](#) (PDF, 272 KB) for data sources and processing steps.

Potential Extent of Mean Higher High Water (MHHW) with Sea Level Rise

- MHHW
- MHHW + 1 ft Sea Level Rise
- MHHW + 2 ft Sea Level Rise
- MHHW + 3 ft Sea Level Rise
- MHHW + 4 ft Sea Level Rise
- MHHW + 5 ft Sea Level Rise
- MHHW + 6 ft Sea Level Rise

Public Facilities and Infrastructure

- Airport



Workshop 2: Resilience Strategies



Workshop 2: Resilience Strategies



Build on Strengths:

- Community Spirit
- Self-sufficiency
- Vulnerable Population Plan
- Public Water Supply Backup
- Low Density Development
- Resilient Natural Systems

Workshop 2: Resilience Strategies



Enhance Transportation Infrastructure:

- Enhance ferry system
- Improve Roads to reduce storm and flood damage.

Workshop 2: Resilience Strategies



Reduce Flood and Stormwater Impacts

- Update Zoning and Development Regulations
- Manage Road Runoff to control erosion.
- Replace culverts
- Monitor and improve dams.

Workshop 2: Resilience Strategies



Reduce Wildfire Risk

- Forest Fuel Reduction
- Forest Management Plan
- Install Dry Hydrants
- Plan for Climate Impacts

Workshop 2: Resilience Strategies



Enhance Water Supply

- Menemsha Storage Tank
- Expand Water Infrastructure
- Install Dry Hydrants
- Expand emergency sources
- State Forest system backup.

Workshop 2: Resilience Strategies



Prepare for Sea Level Rise

- Masterplan for Menemsha
- Manage Beach, Pond and Dune Systems

Workshop 2: Resilience Strategies



Public Health and Well-being

- Tick Testing Equipment
- Elder Services
- Mental Health

The MVP Process in Chilmark and West Tisbury

