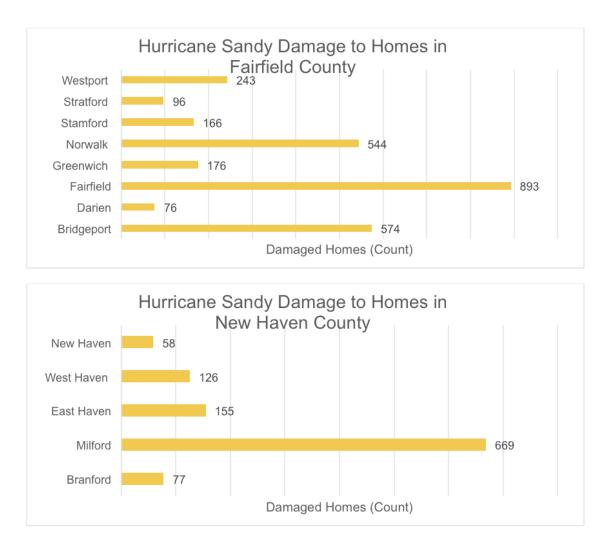
Name of the Attachment: **AttEMapsAndDrawings** Name of the applicant: **The State of Connecticut** Name of the file: **AttEMapsAndDrawings**

Figure 1. Number of homes damaged by Hurricane Sandy for coastal municipalities in the most impacted and distressed target areas (Analysis of Communities Impacted by Hurricane Sandy in Connecticut; HUD: PD&R; March 7, 2013).



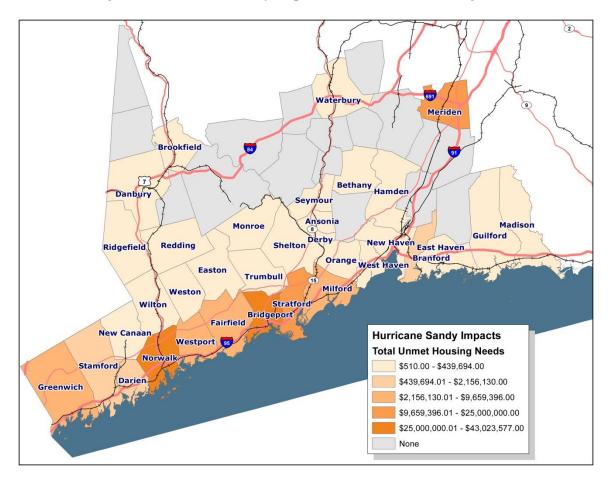


Figure 2: Hurricane Sandy Impacts – total unmet housing needs

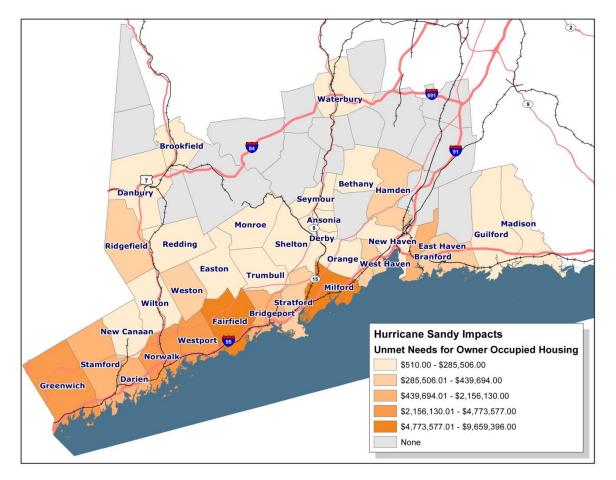


Figure 3: Hurricane Sandy Impacts – unmet needs for owner-occupied housing

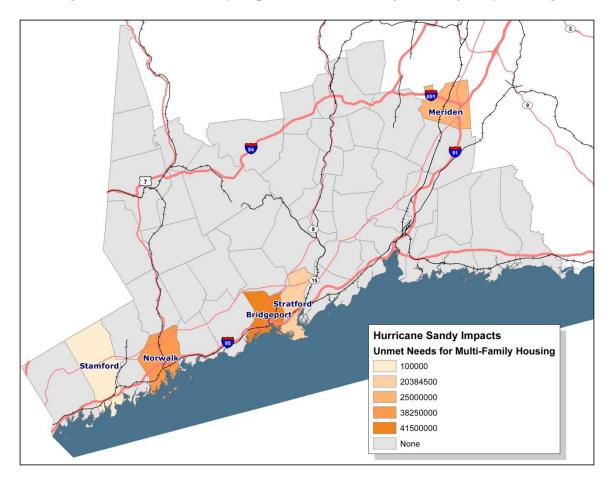
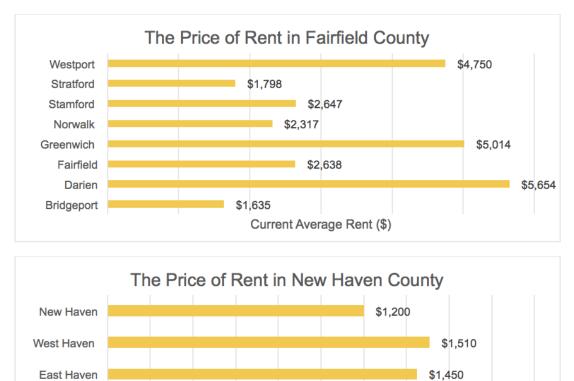


Figure 4: Hurricane Sandy Impacts – unmet needs for multi-family housing



Current Average Rent (\$)

Milford

Branford

Figure 5. Average rent for coastal municipalities in the most impacted and distressed target areas (Zillow Rent Index, April 29, 2013).

\$1,762

\$1,760

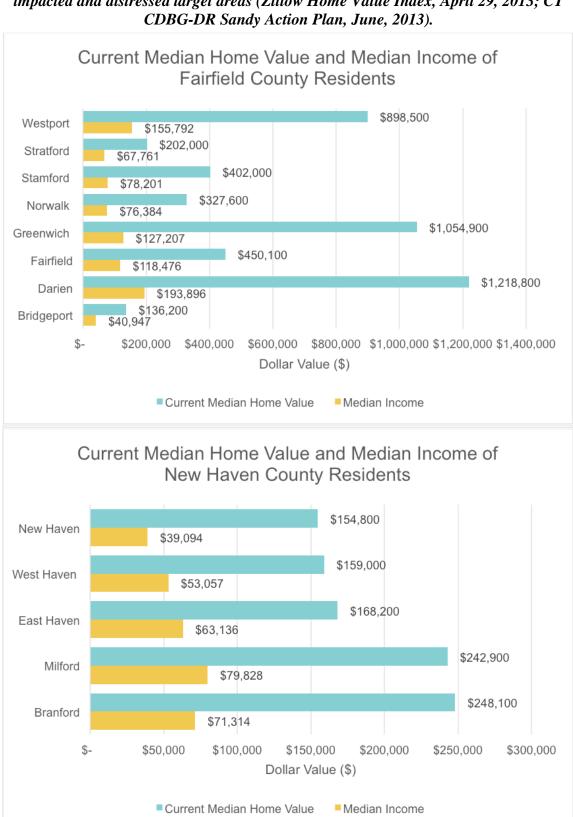
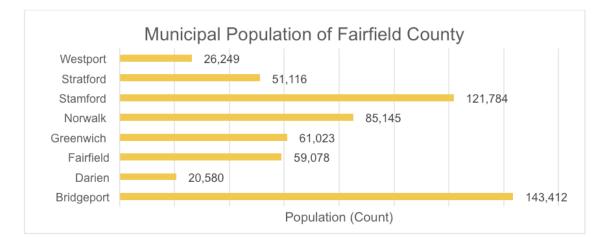


Figure 6. Current median home value and median income of residents in the most impacted and distressed target areas (Zillow Home Value Index, April 29, 2013; CT

Figure 7. Population of coastal municipalities in the most impacted and distressed target areas (American Community Survey 2007-2011 Five Year Survey).



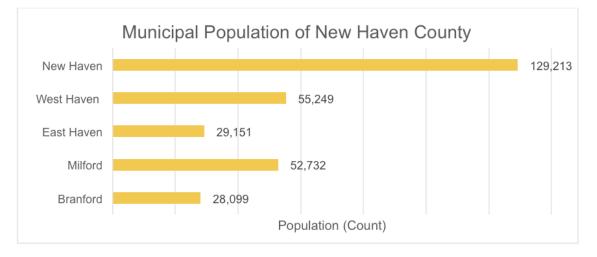
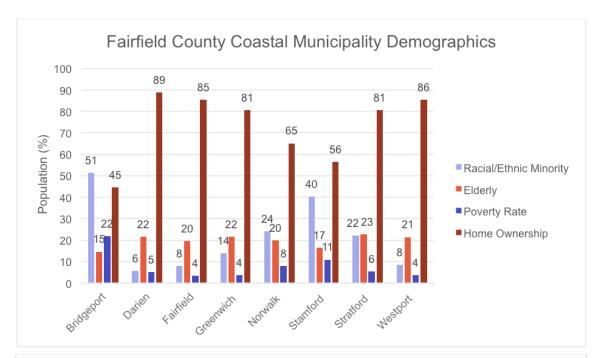
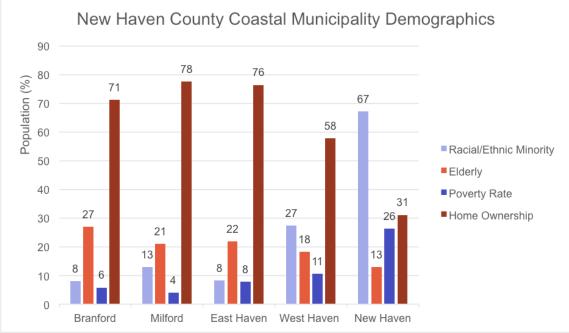


Figure 8. Percentage of the population that is a racial/ethnic minority and elderly and the poverty rate and home ownership rate for coastal municipalities in the most impacted and distressed target areas (American Community Survey 2007-2011 Five Year Survey; CT CDBG-DR Sandy Action Plan, June, 2013).





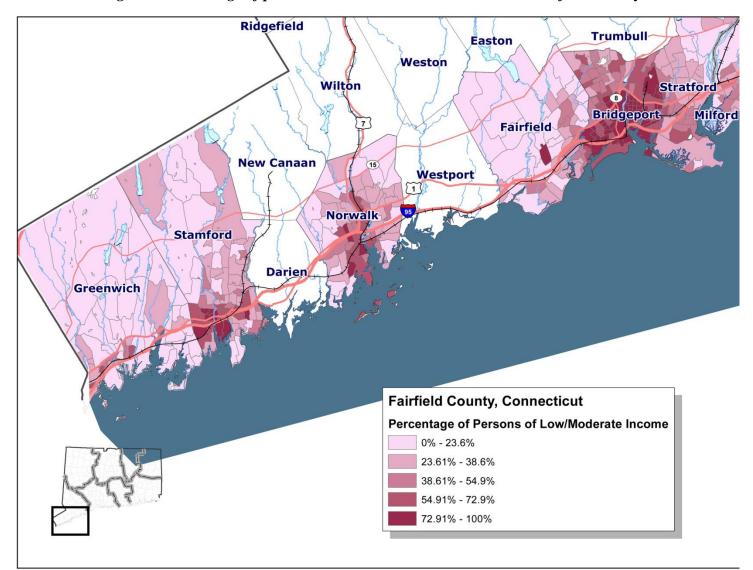


Figure 9: Percentage of persons with low or moderate income in Fairfield County

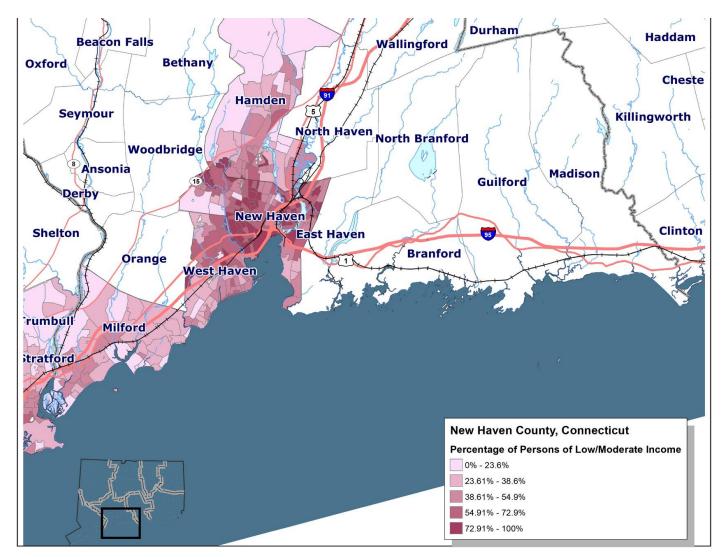


Figure 10: Percentage of persons with low or moderate income in New Haven County

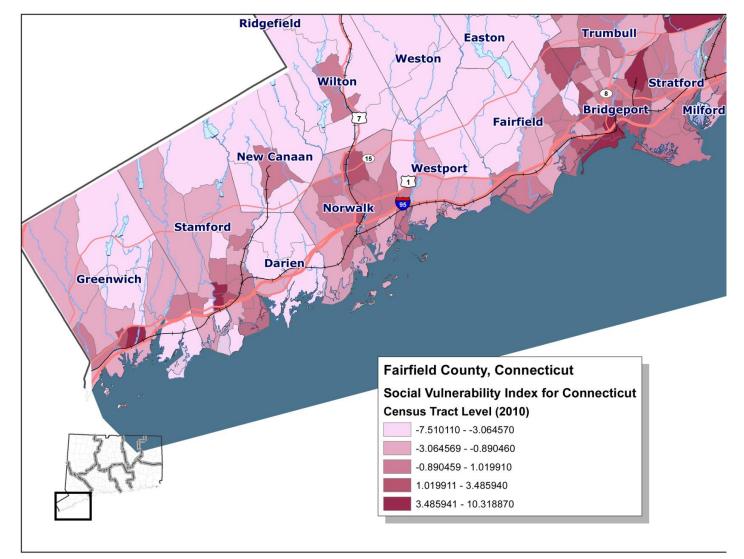


Figure 11: Social Vulnerability Index for Connecticut at the census track level in Fairfield County (2010)

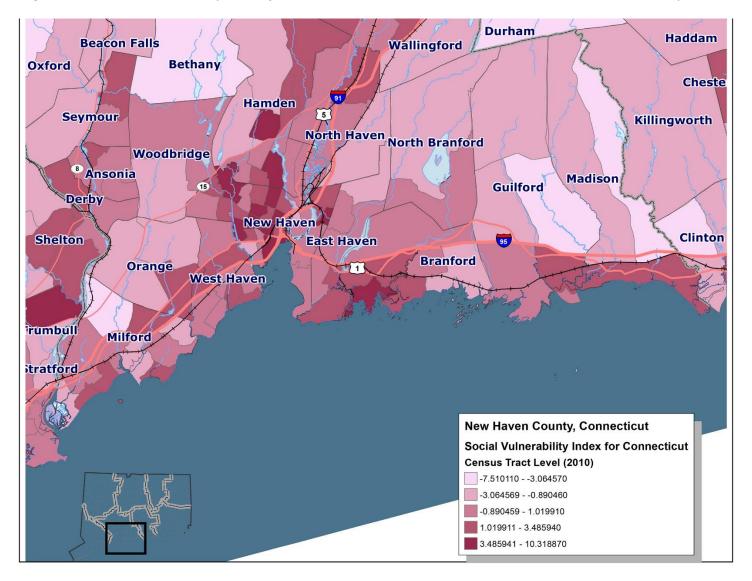


Figure 12: Social Vulnerability Index for Connecticut at the census track level in New Haven County (2010)

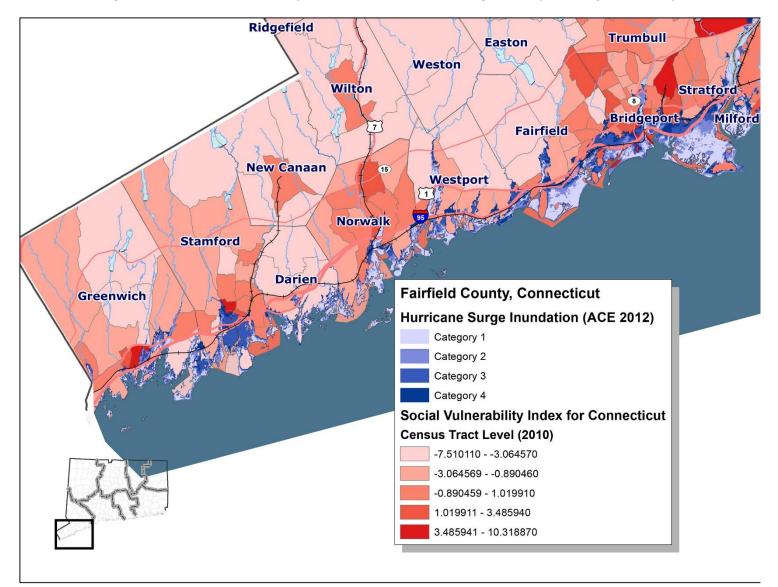


Figure 13: Social Vulnerability Index with Hurricane Surge overlay in Fairfield County

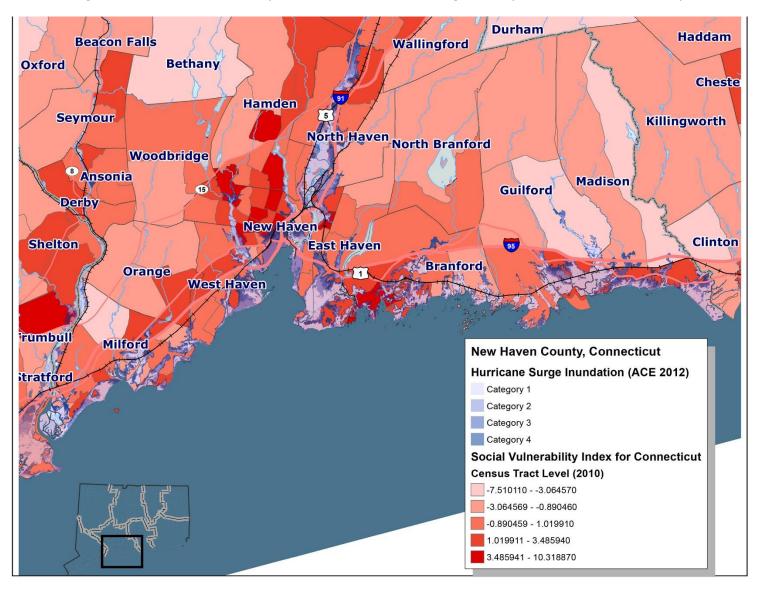
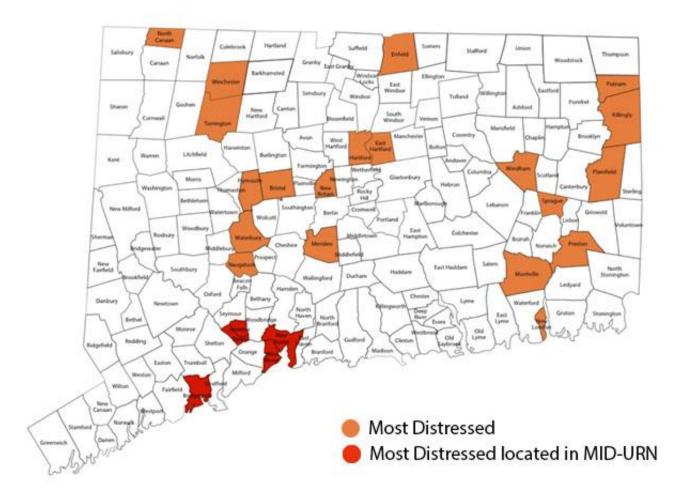


Figure 14: Social Vulnerability Index with Hurricane Surge overlay in in New Haven County

Figure 15. The most distressed 25 municipalities in the State of Connecticut as ranked by the Connecticut Department of Economic and Community Development based on high unemployment and poverty, aging housing stock and low or declining rates of growth in job creation, population, per capita income, percent of population with a high school degree and higher and per capita Adjusted Equalized Net Grand List (Connecticut Conference of Municipalities, Disproportionate Burdens: Major Challenges Facing Connecticut's Poorer Communities, November, 2014; © Copyright 2014 Connecticut Conference of Municipalities)



Legend Enlargement for Figures 16-30

Infrastructure Sites

- Energy Facillities
 - Wastewater Treatment Facilities
- Marine Terminals

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Ö

Train Stations

FEMA Individual Assistance (IA) Household Inspection Damage Damage Classification (Hurricane Sandy Impacts)

- Affected Total Full Verified Loss (FVL) greater than \$0 to \$5,000
- Minor Total Full Verified Loss (FVL) \$5,000 to \$17,000
- Major Total Full Verified Loss (FVL) more than \$17,000
- Destroyed If indicated by IA Inspector

FINAL - High Resolution Storm Surge Extent

Hurricane Sandy (FEMA Modeling Task Force (MOTF) Impact Analysis)

Projected Hurricane Surge Inundation Areas

Category 3 Hurricane (Army Corps of Engineers 2012 Surge Model)

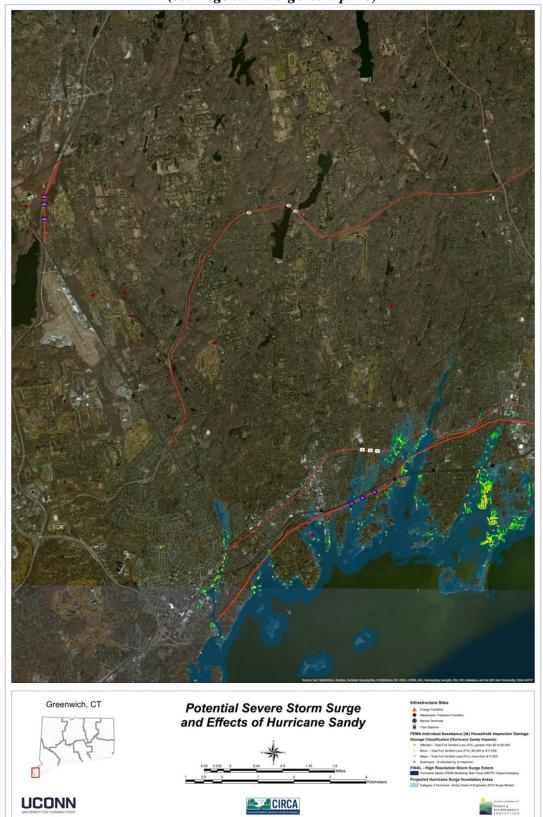


Figure 16: Hurricane Sandy and Anticipated Category 3 Inundation Town of Greenwich (see Legend Enlargement p. 18)

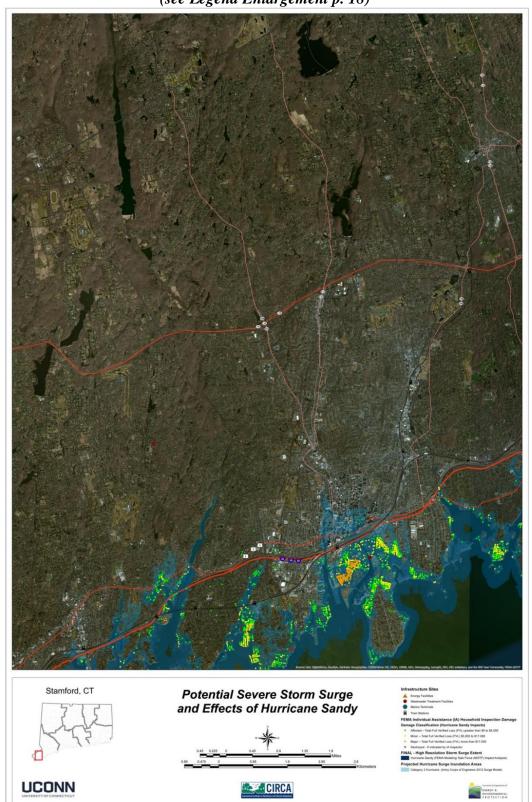


Figure 17: Hurricane Sandy and Anticipated Category 3 Inundation City of Stamford (see Legend Enlargement p. 18)



Figure 18: Hurricane Sandy and Anticipated Category 3 Inundation Town of Darien (see Legend Enlargement p. 18)

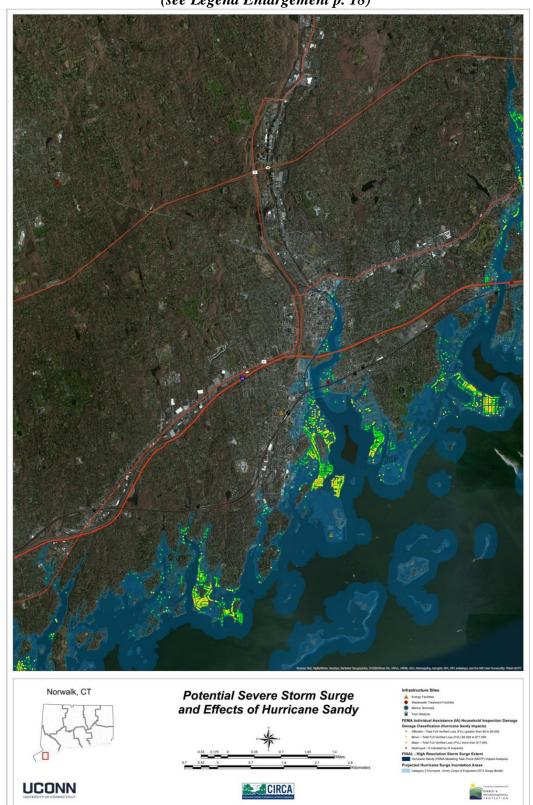


Figure 19: Hurricane Sandy and Anticipated Category 3 Inundation City of Norwalk (see Legend Enlargement p. 18)

Figure 20: Hurricane Sandy and Anticipated Category 3 Inundation Town of Westport (see Legend Enlargement p. 18)

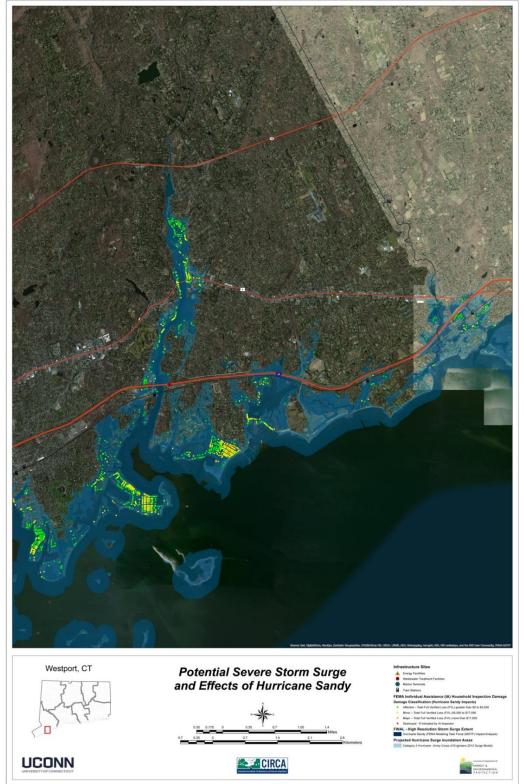
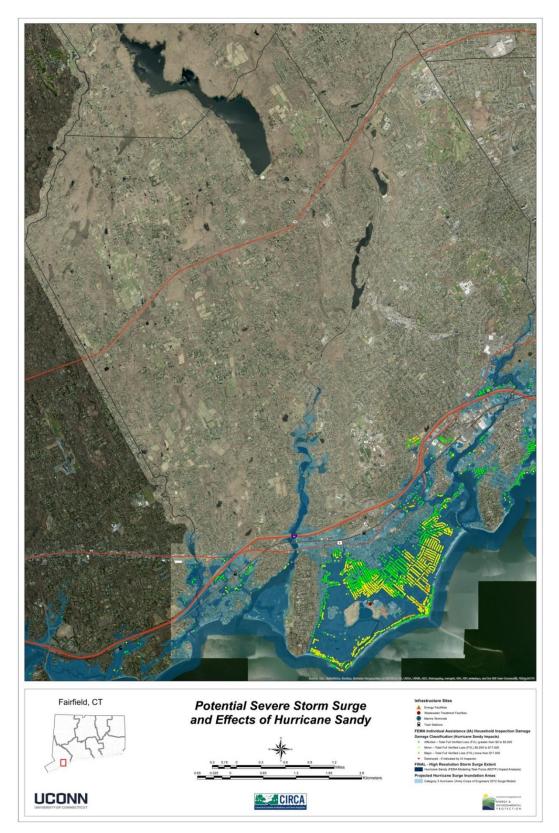


Figure 21: Hurricane Sandy and Anticipated Category 3 Inundation Town of Fairfield (see Legend Enlargement p. 18)



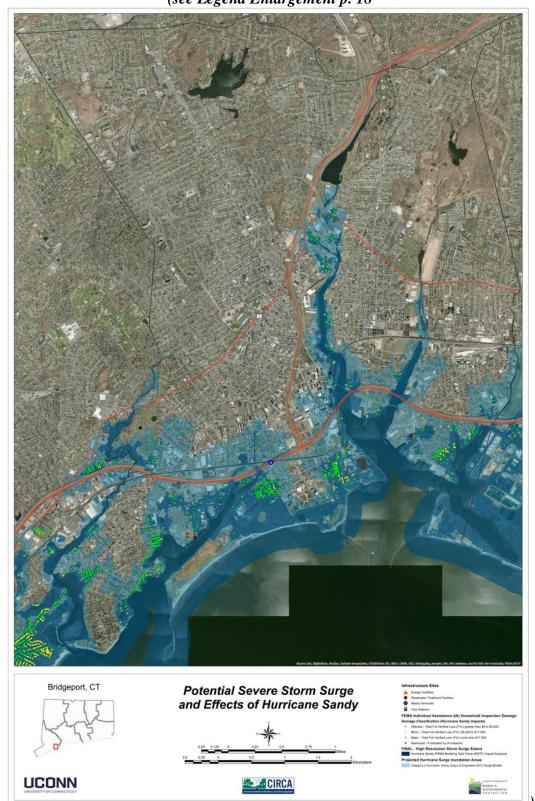


Figure 22: Hurricane Sandy and Anticipated Category 3 Inundation City of Bridgeport (see Legend Enlargement p. 18

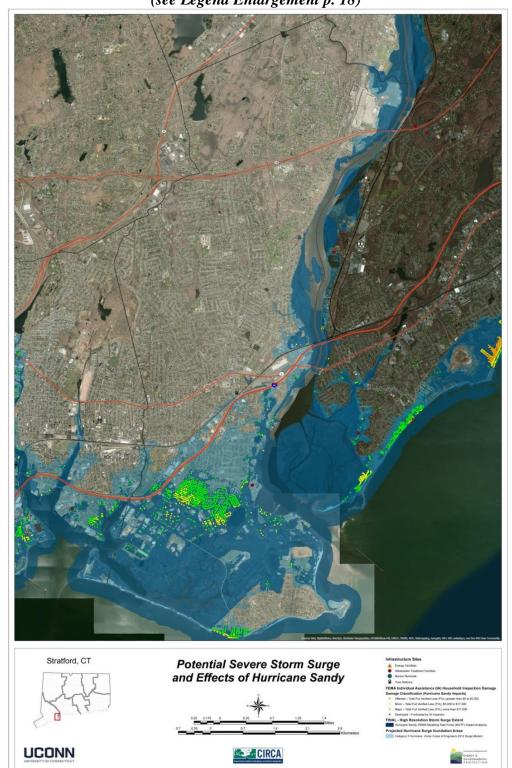


Figure 23:: Hurricane Sandy and Anticipated Category 3 Inundation Town of Stratford (see Legend Enlargement p. 18)

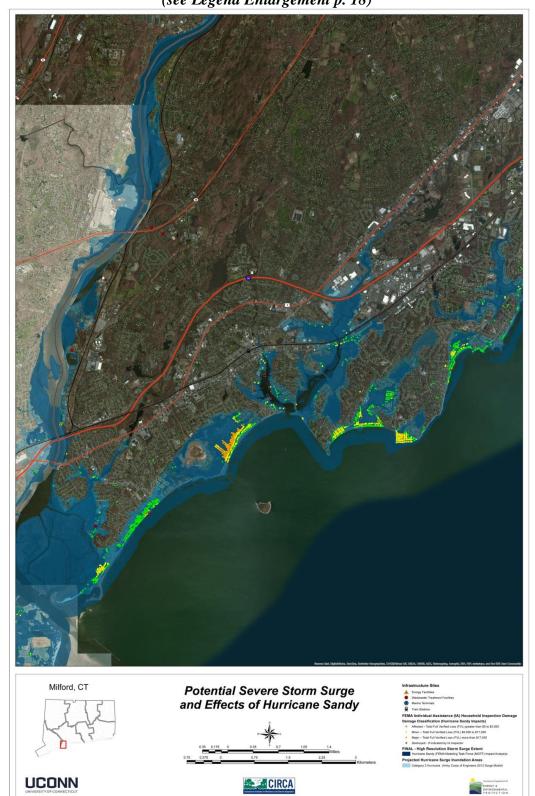


Figure 24: Hurricane Sandy and Anticipated Category 3 Inundation City of Milford (see Legend Enlargement p. 18)



Figure 25: Hurricane Sandy and Anticipated Category 3 Inundation City of West Haven (see Legend Enlargement p. 18)



Figure 26: Hurricane Sandy and Anticipated Category 3 Inundation City of New Haven (see Legend Enlargement p. 18)

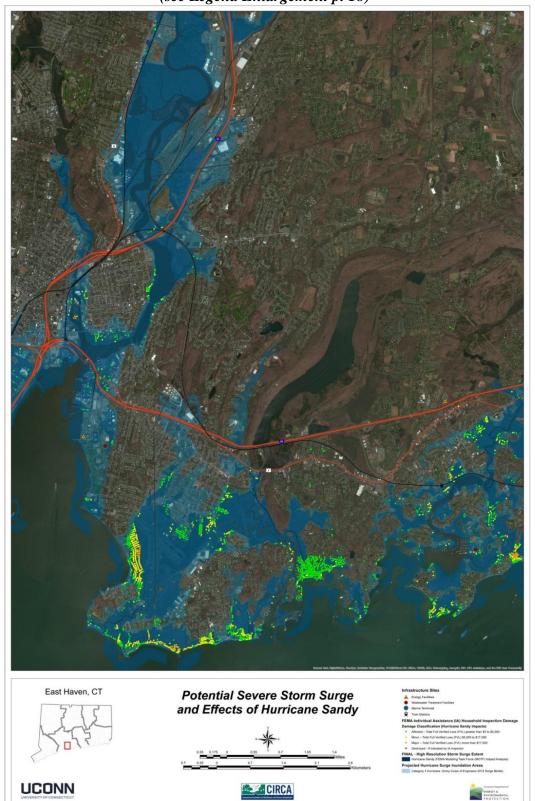


Figure 27: Hurricane Sandy and Anticipated Category 3 Inundation Town of East Haven (see Legend Enlargement p. 18)

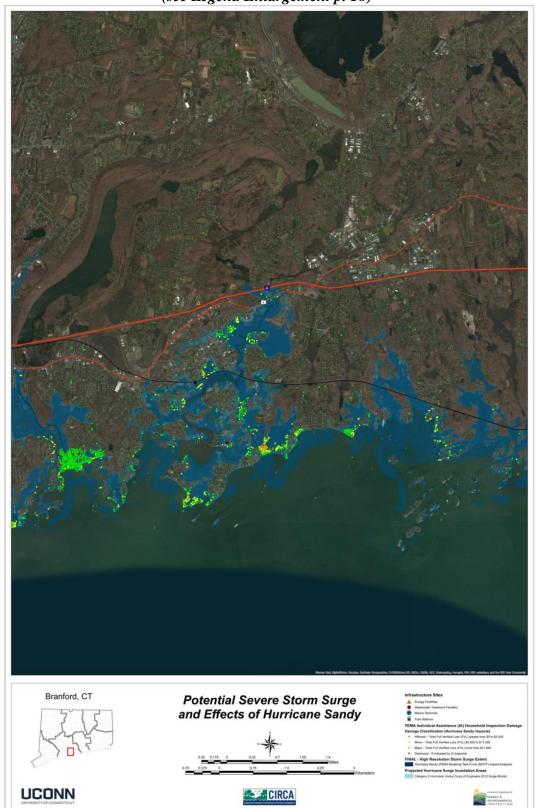


Figure 28: Hurricane Sandy and Anticipated Category 3 Inundation Town of Branford (see Legend Enlargement p. 18)

Figure 29: Hurricane Sandy and Anticipated Category 3 Inundation Town of Guilford (see Legend Enlargement p. 18)

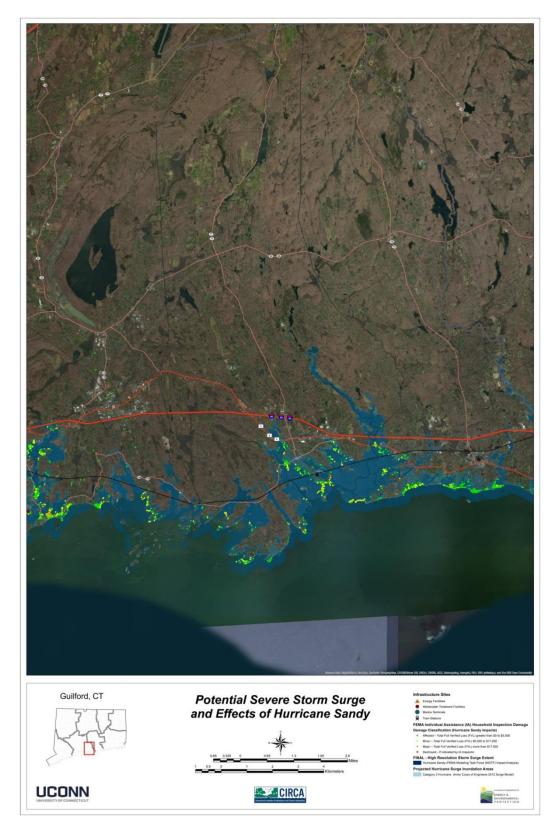




Figure 30: Hurricane Sandy and Anticipated Category 3 Inundation Town of Madison (see Legend Enlargement p. 18)

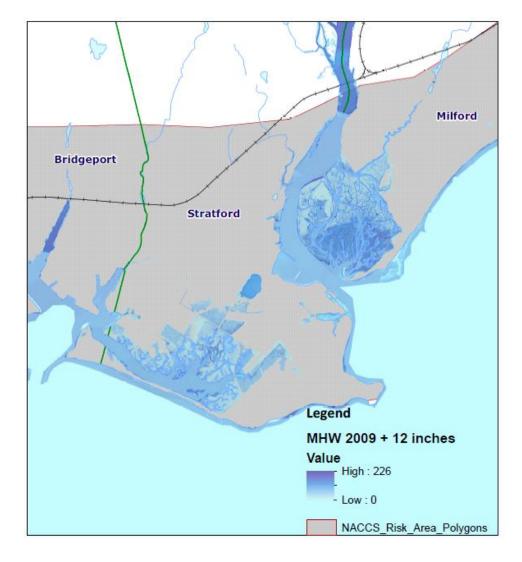


Figure 31: An example of an area expected to be affected by sea level rise (12")

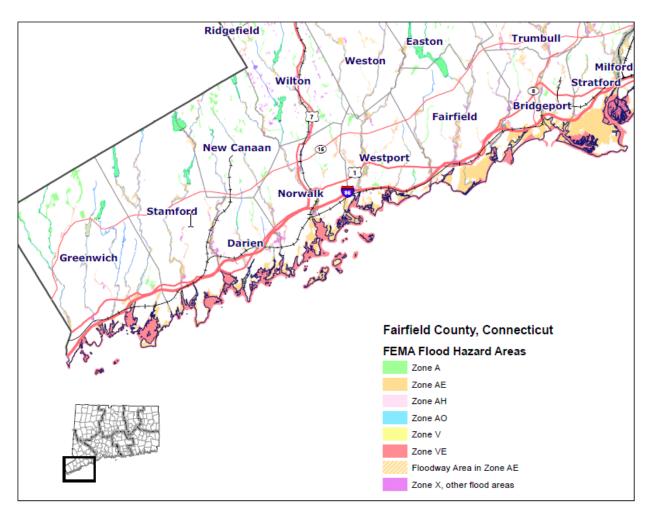


Figure 32: FEMA Flood Hazard Areas for Fairfield County

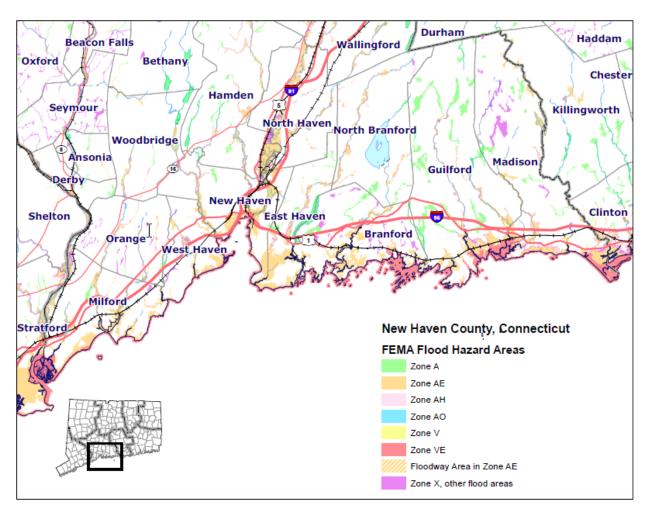


Figure 33: FEMA Flood Hazard Areas for New Haven County

Figure 34: Hurricane Inundation Areas as predicted by the Sea, Lake, and Overland Surges from Hurricanes (SLOSH) model in Fairfield County

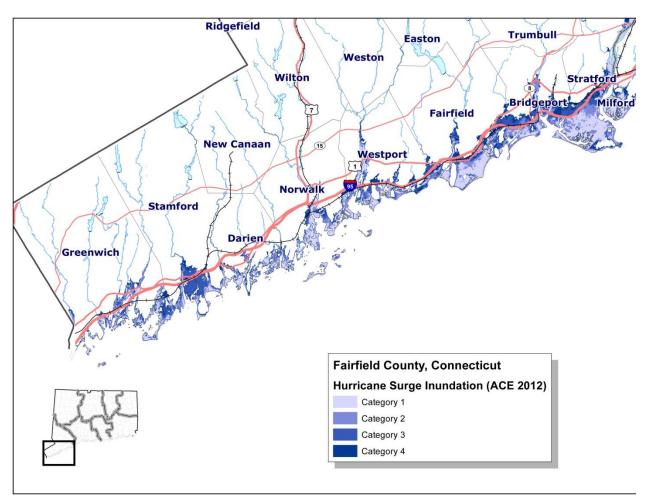


Figure 35: Hurricane Inundation Areas as predicted by the Sea, Lake, and Overland Surges from Hurricanes (SLOSH) model in New Haven County

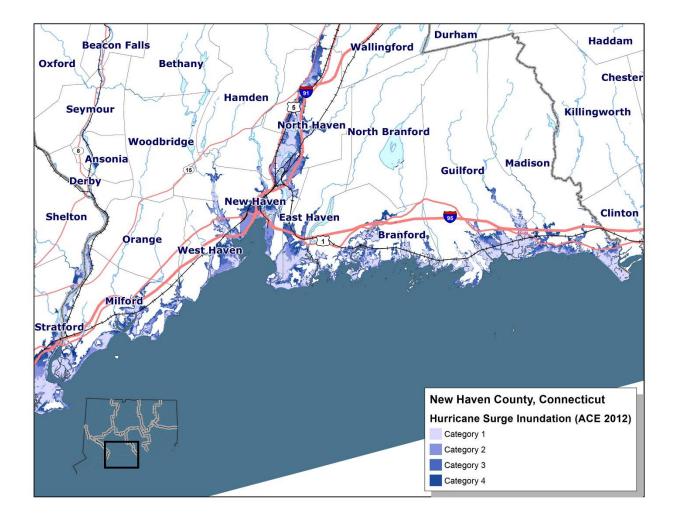
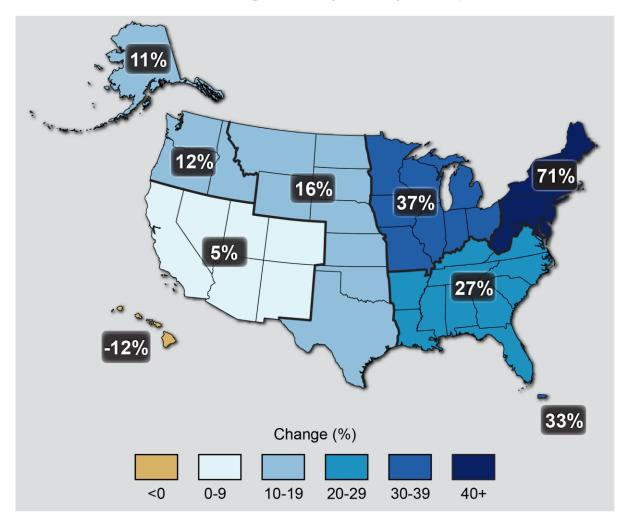
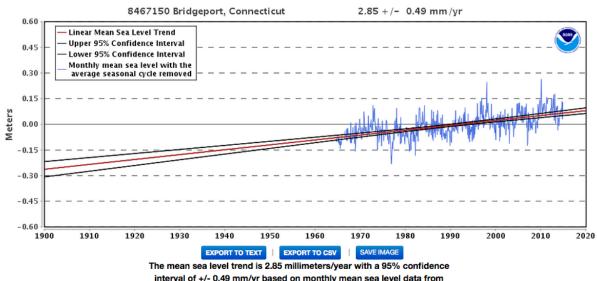


Figure 36. Observed Change in Very Heavy Precipitation. (Walsh, J., D. Wuebbles, K. Hayhoe, J. Kossin, K. Kunkel, G. Stephens, P. Thorne, R. Vose, M. Wehner, J. Willis, D. Anderson, S. Doney, R. Feely, P. Hennon, V. Kharin, T. Knutson, F. Landerer, T. Lenton, J. Kennedy, and R. Somerville, 2014: Ch. 2: Our Changing Climate. Climate Change Impacts in the United States: The Third National Climate Assessment, J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds., U.S. Global Change Research Program, 19-67. doi:10.7930/J0KW5CXT



Observed Change in Very Heavy Precipitation

Figure 37: Mean Sea Level trend for Bridgeport, CT



Mean Sea Level Trend 8467150 Bridgeport, Connecticut

interval of +/- 0.49 mm/yr based on monthly mean sea level data from 1964 to 2013 which is equivalent to a change of 0.94 feet in 100 years.

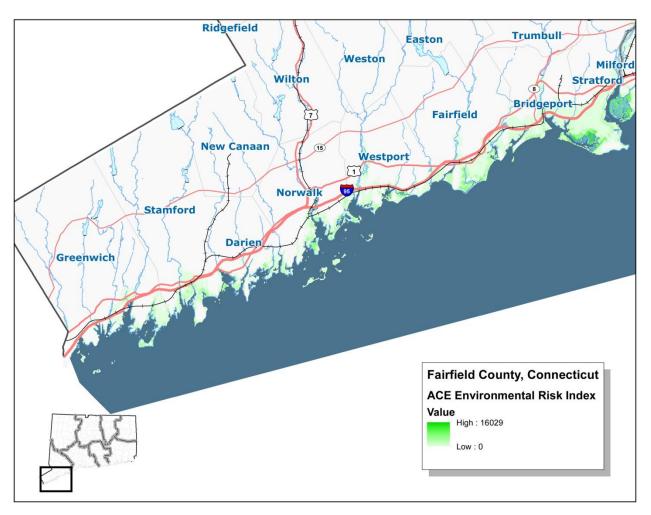


Figure 38: Army Corps of Engineers Environmental Risk Index for Fairfield County

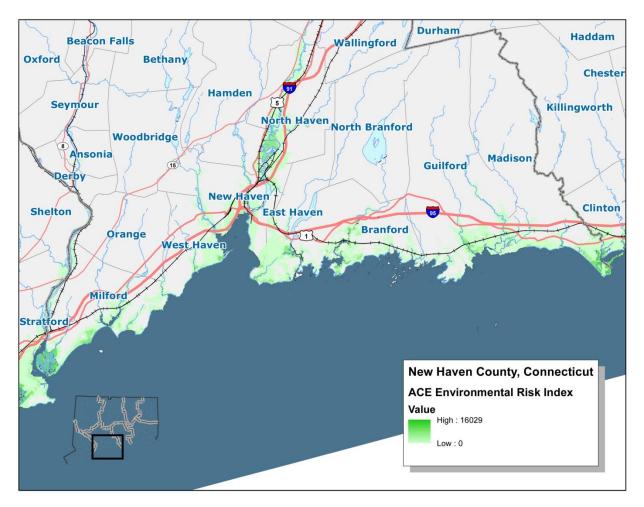


Figure 39: Army Corps of Engineers Environmental Risk Index for New Haven County

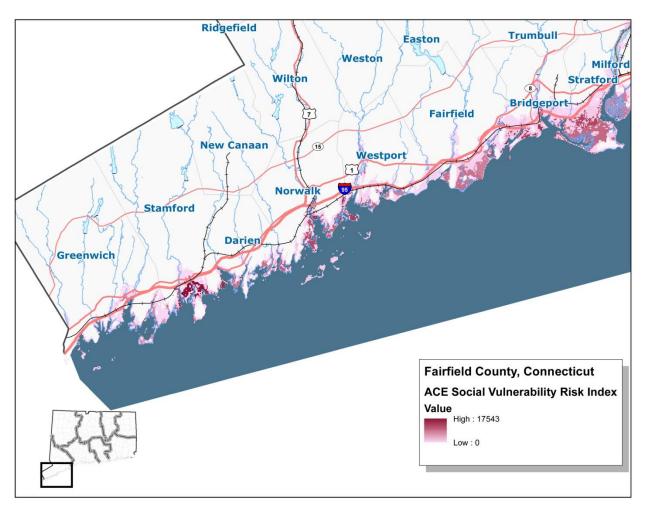


Figure 40: Army Corps of Engineers Social Vulnerability Risk Index for Fairfield County

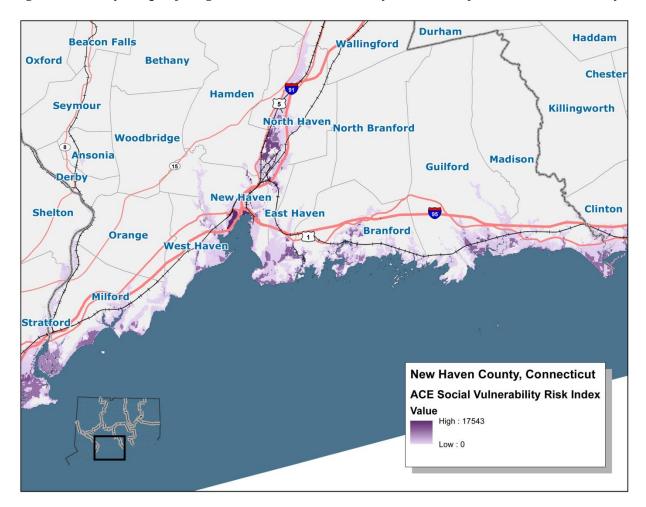


Figure 41: Army Corps of Engineers Social Vulnerability Risk Index for New Haven County

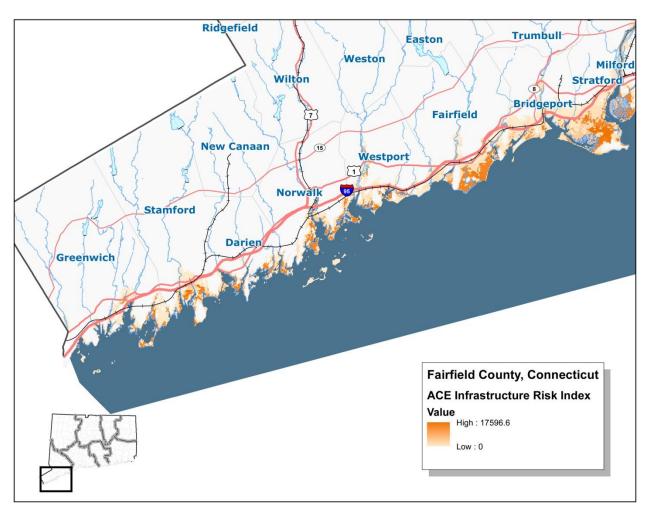


Figure 42: Army Corps of Engineers Infrastructure Risk Index for Fairfield County

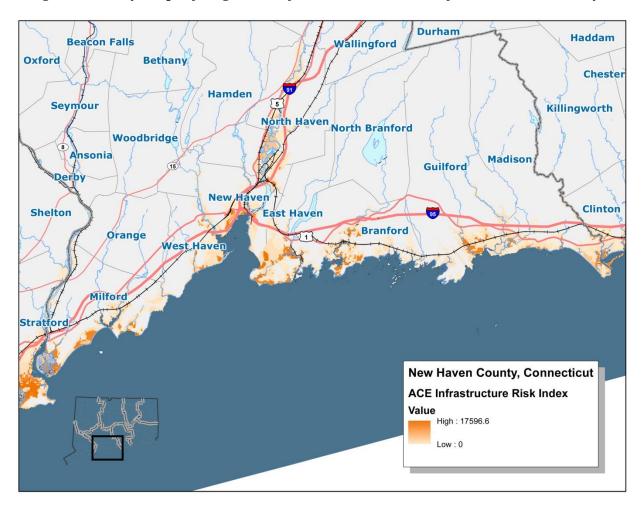


Figure 43: Army Corps of Engineers Infrastructure Risk Index for New Haven County

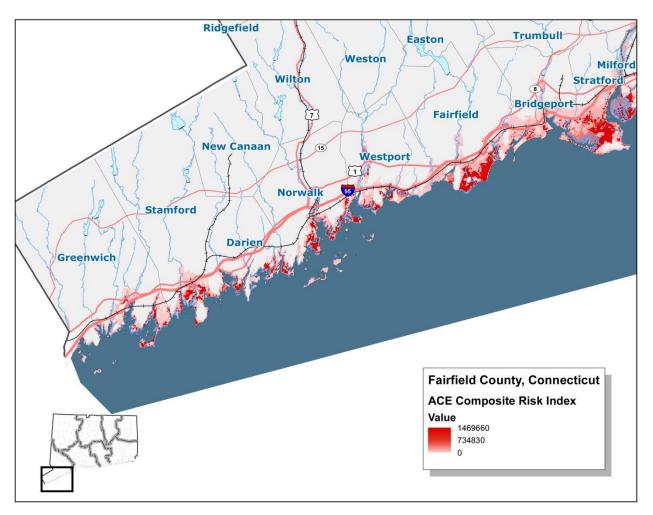


Figure 44: Army Corps of Engineers Composite Risk Index Value for Fairfield County

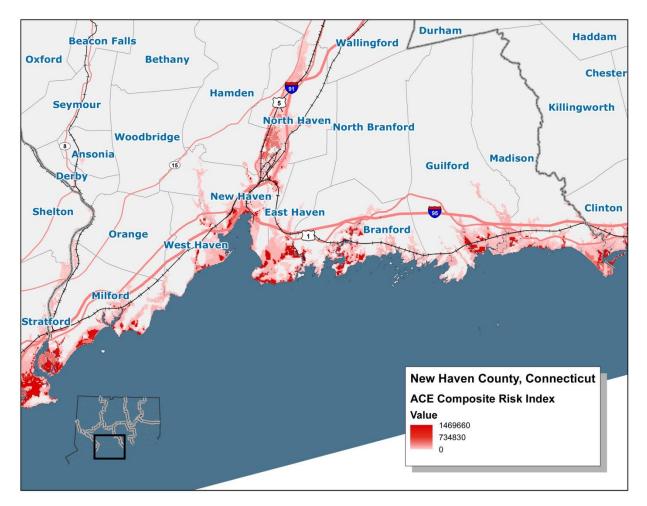


Figure 45: Army Corps of Engineers Composite Risk Index Value for New Haven County

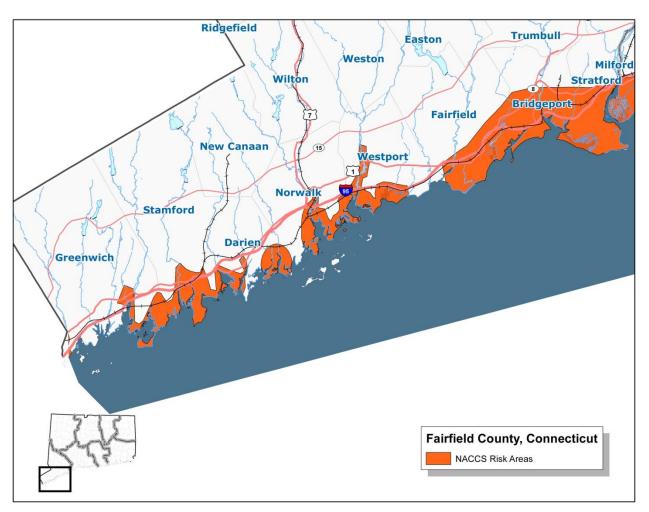


Figure 46: Army Corps of Engineers Risk Areas Fairfield County

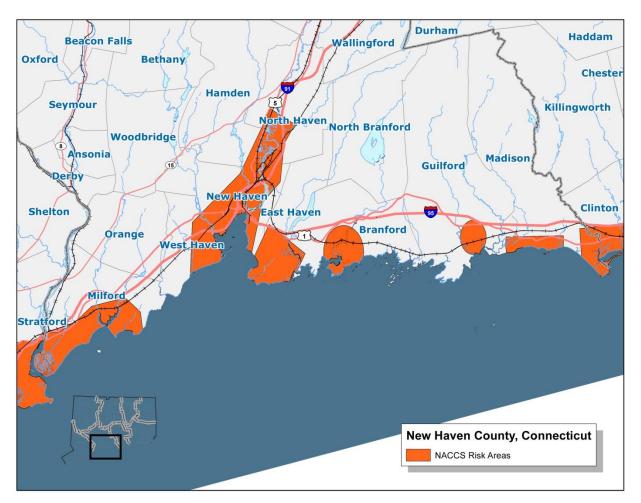


Figure 47: Army Corps of Engineers Risk Areas New Haven County

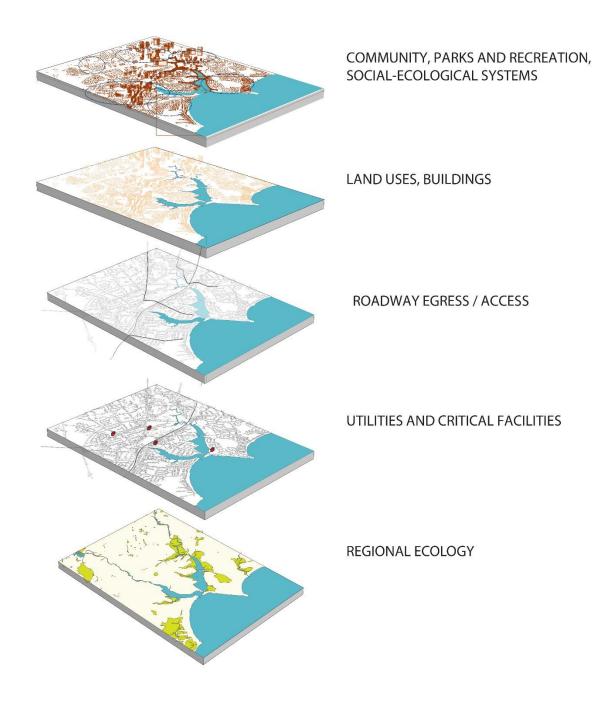


Figure 49: Egress typologies Vulnerable to Flooding; Potential "Pinch Points" in Evacuation Routes



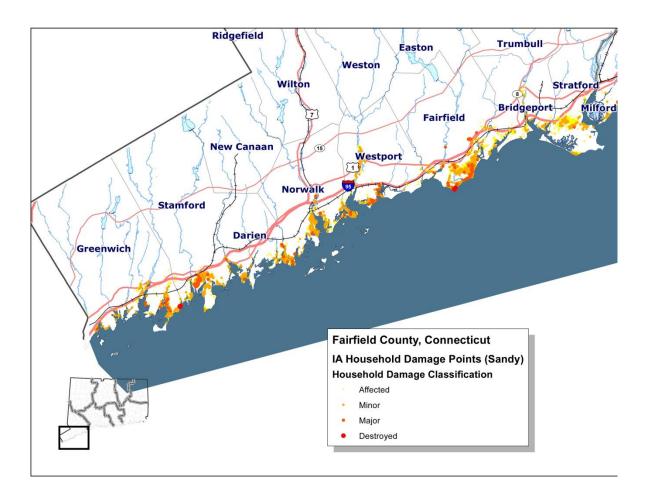


Figure 50: Properties Damaged by Hurricane Sandy in Fairfield County

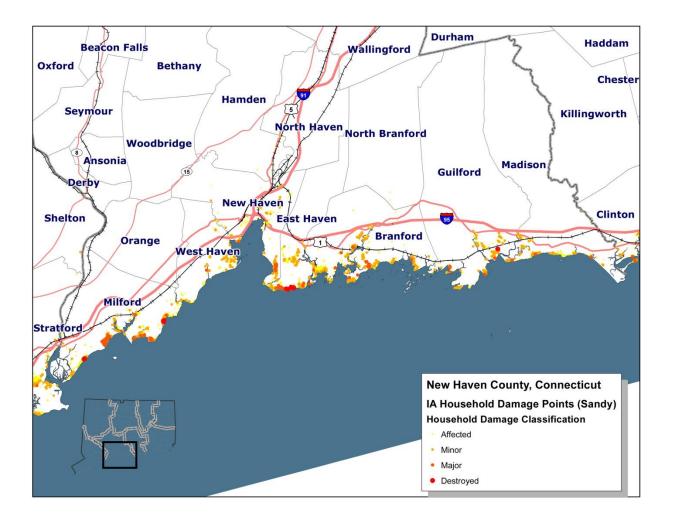
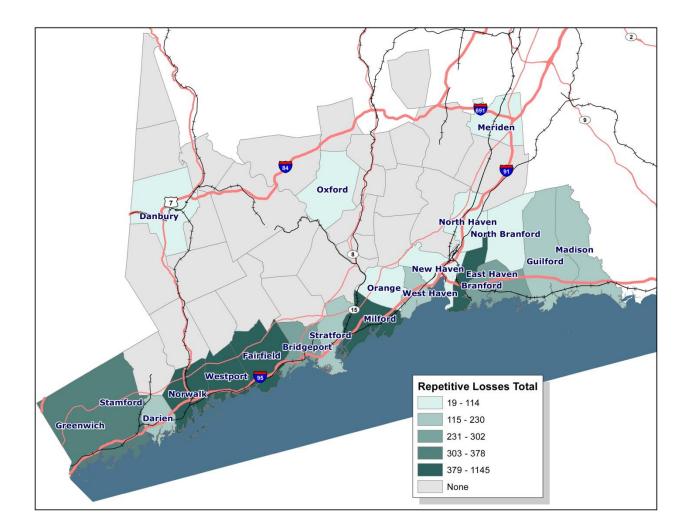


Figure 51: Properties Damaged by Hurricane Sandy in New Haven County





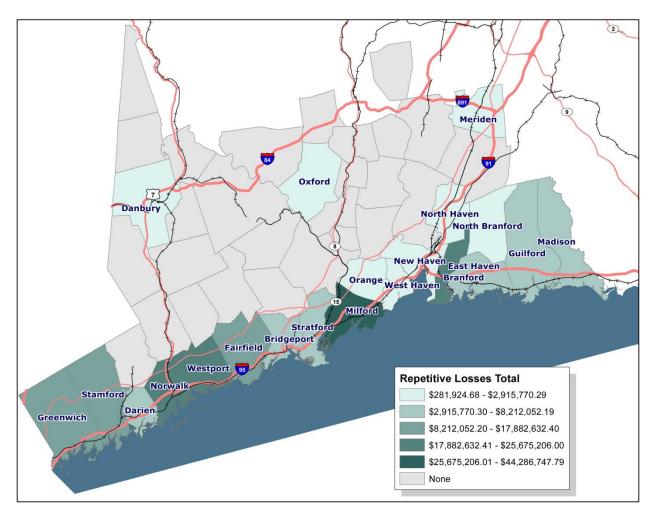


Figure 53: Repetitive Loss Costs in Fairfield and New Haven Counties

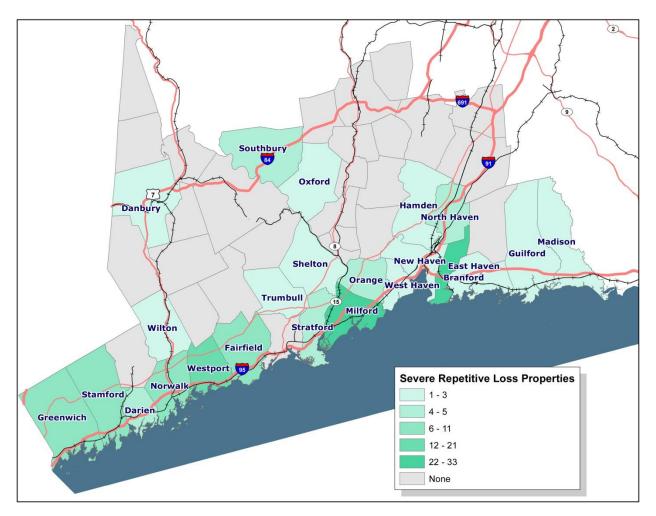


Figure 54: Areas of Severe Repetitive Loss Properties in Fairfield and New Haven Counties

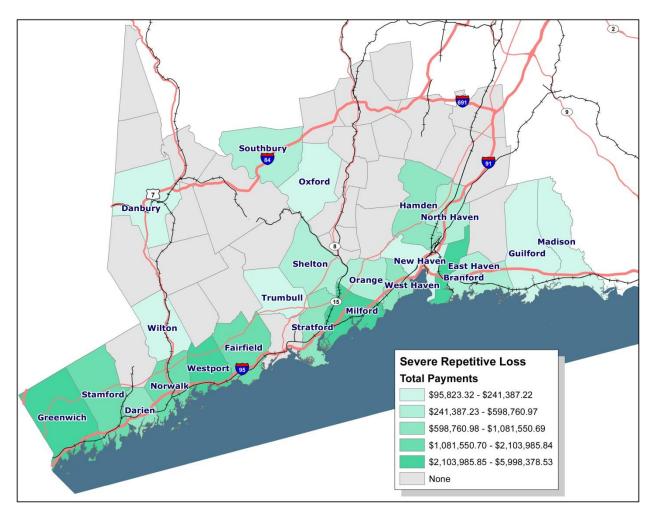
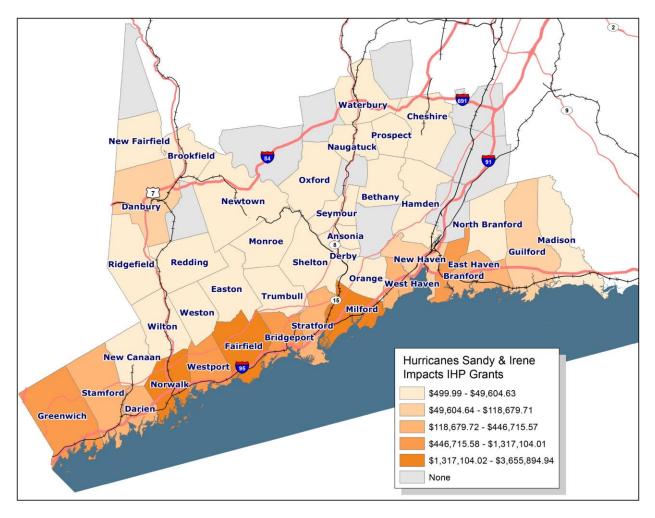
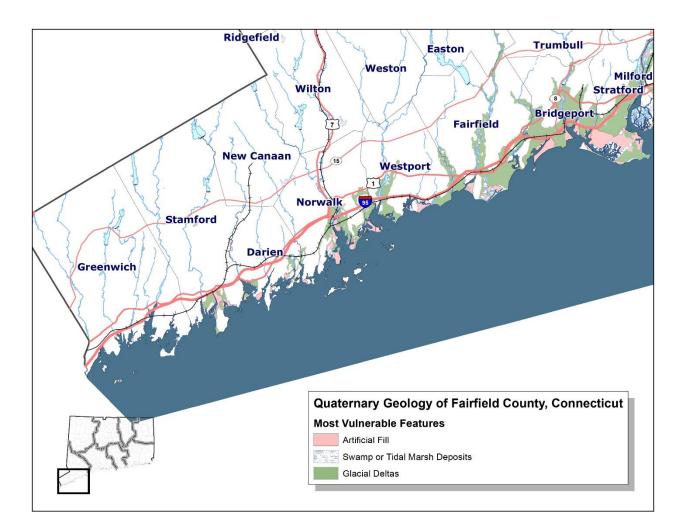


Figure 55: Severe Repetitive Loss Costs in Fairfield and New Haven Counties

Figure 56: Communities hard hit by both Tropical Storm Irene and Hurricane Sandy (measured by federal expenditure for IHP grants for)





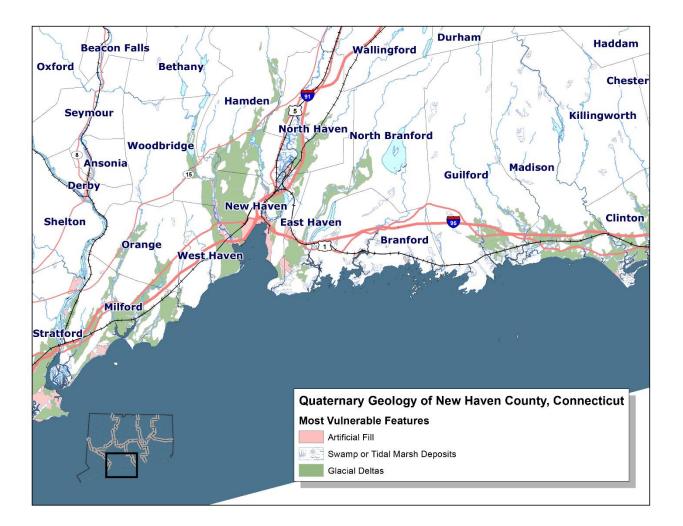


Figure 58: Quaternary Geology of New Haven County

Figure 59: Vulnerable Coastal Typologies

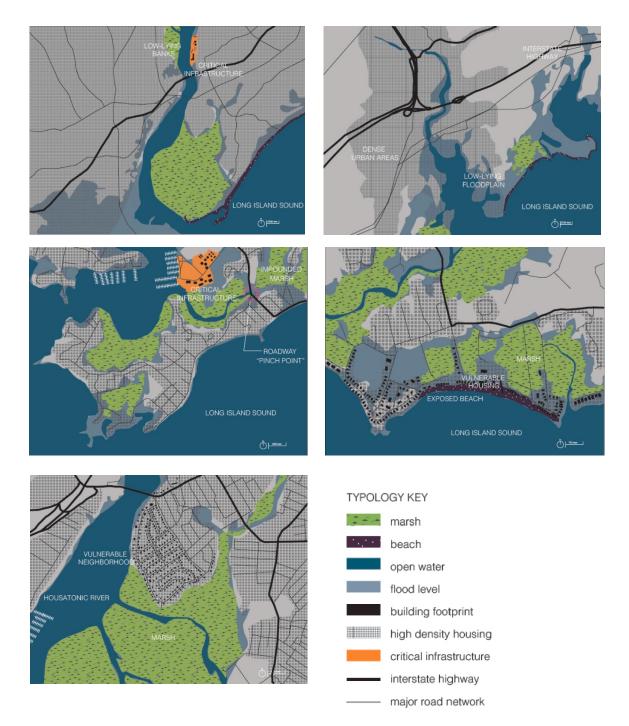


Figure 60: Frequency of Vulnerable Coastal Typology: Beaches Backed by Marsh along Fairfield & New Haven Counties' Coasts



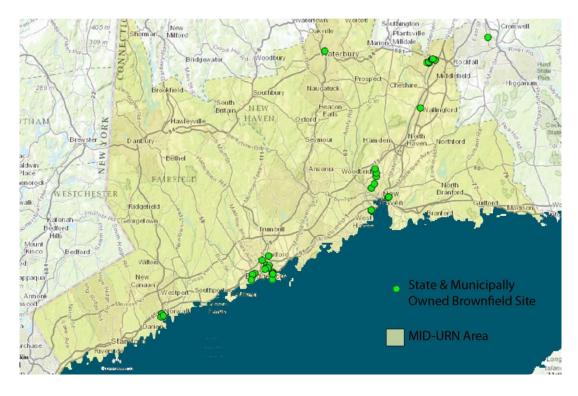


Figure 61: Brownfields in Fairfield and New Haven Counties

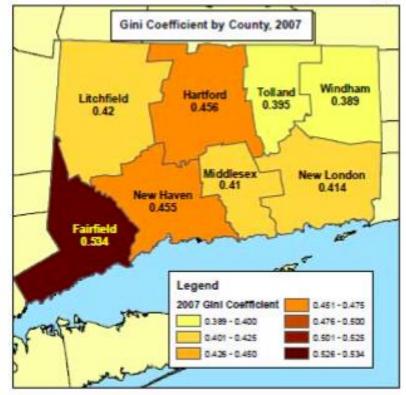


Figure 2: Connecticut's Gini Coefficient by County, 2007

Source: Connecticut Voices for Children

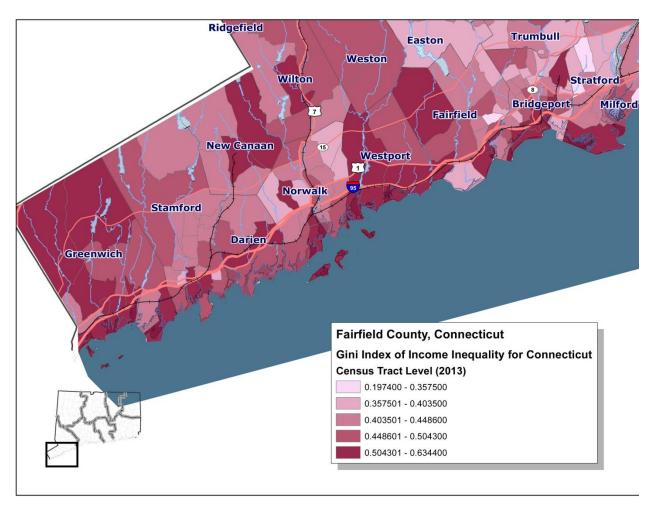
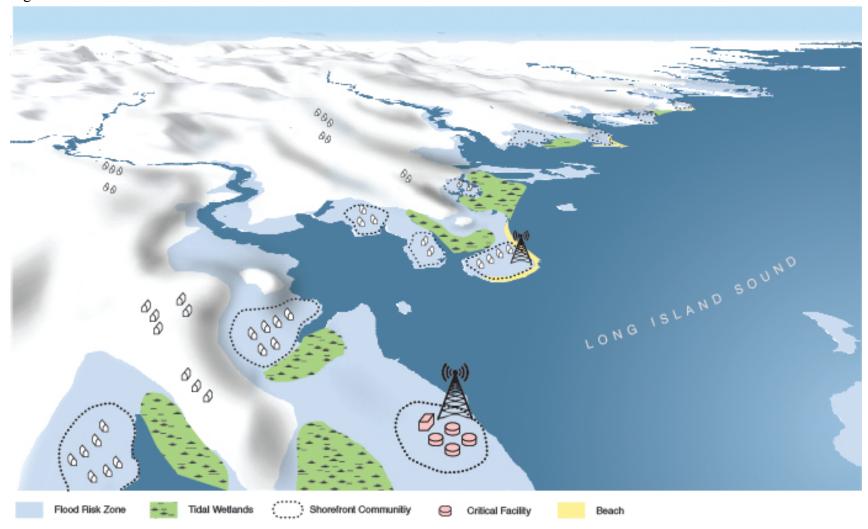
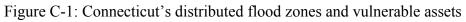


Figure 63: Gini coefficient (a measure of inequality) in Fairfield County



Figure 64: Gini coefficient (a measure of inequality) in New Haven County





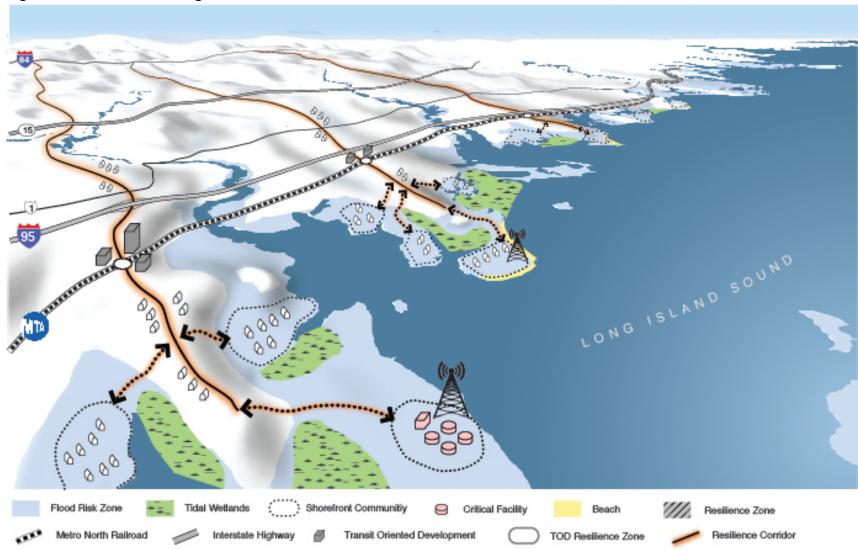


Figure C-2: Connecticut's ridgelines and resilience corridors



Figure C-3: Connecticut's regional transportation corridor and resilience zones

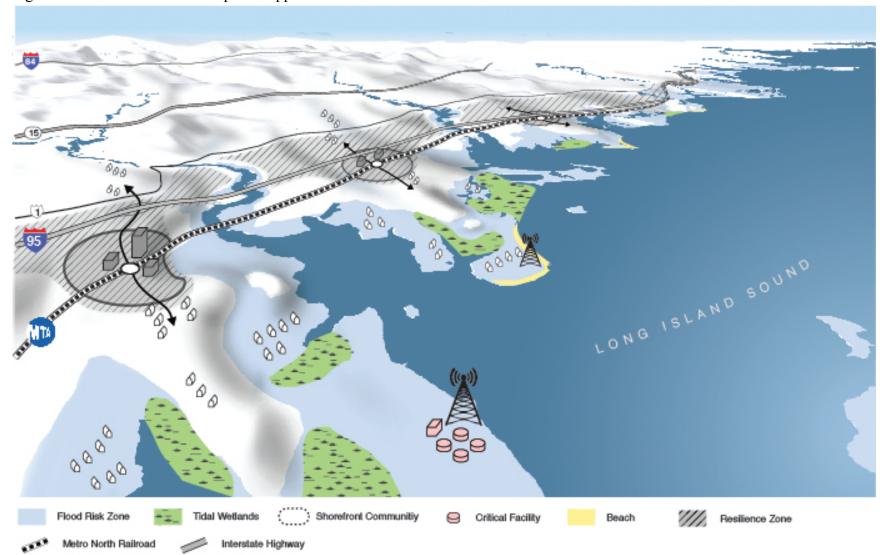


Figure 4: Transit-oriented development opportunities within resilience zones



Figure C-5: Vision for Connecticut's resilient coastal communities

Figure C-6: Opportunities for resilience and redevelopment within resilience zones

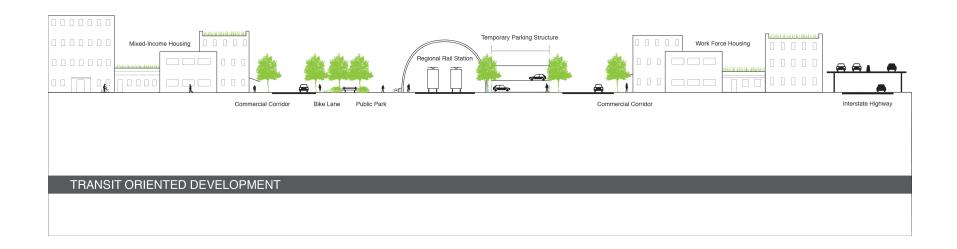




Figure C-7: Opportunities for resilience investments in Anytown, Connecticut

Figure C-8: Areas with high rates of poverty serviced by rail (Source: CT Department of Transportation)

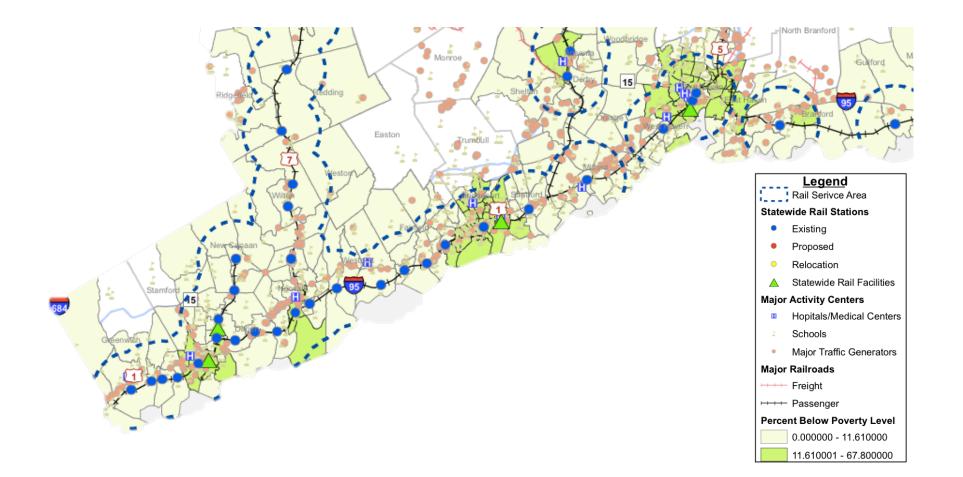
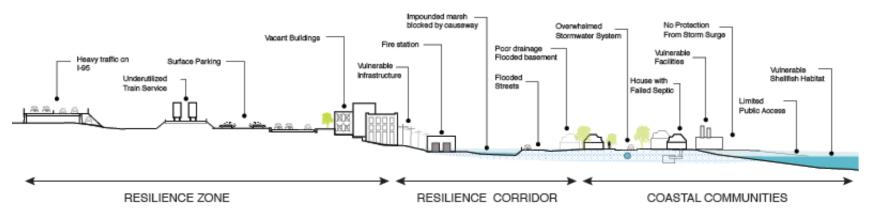


Figure C-9: Long-term transitions within vulnerable communities

CURRENT



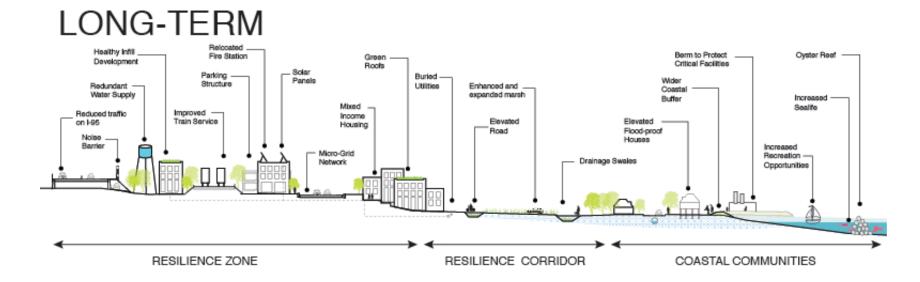
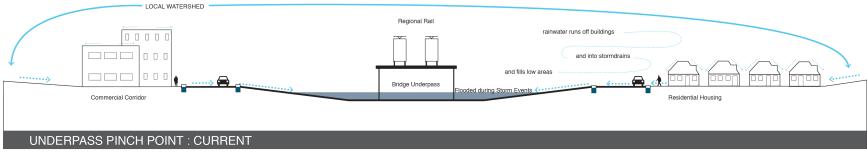
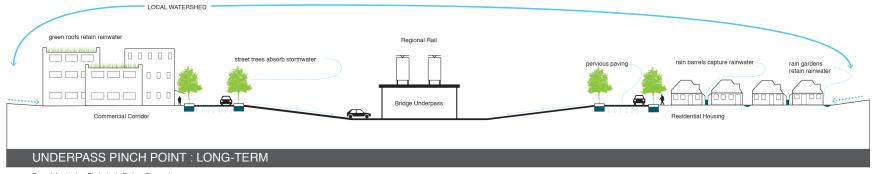


Figure C-10: Addressing transportation pinch points with green infrastructure and stormwater management



Impervious Surface Increases Stormwater Quantity and Speed



Green Infrastructure Strategies to Reduce Stormwater

