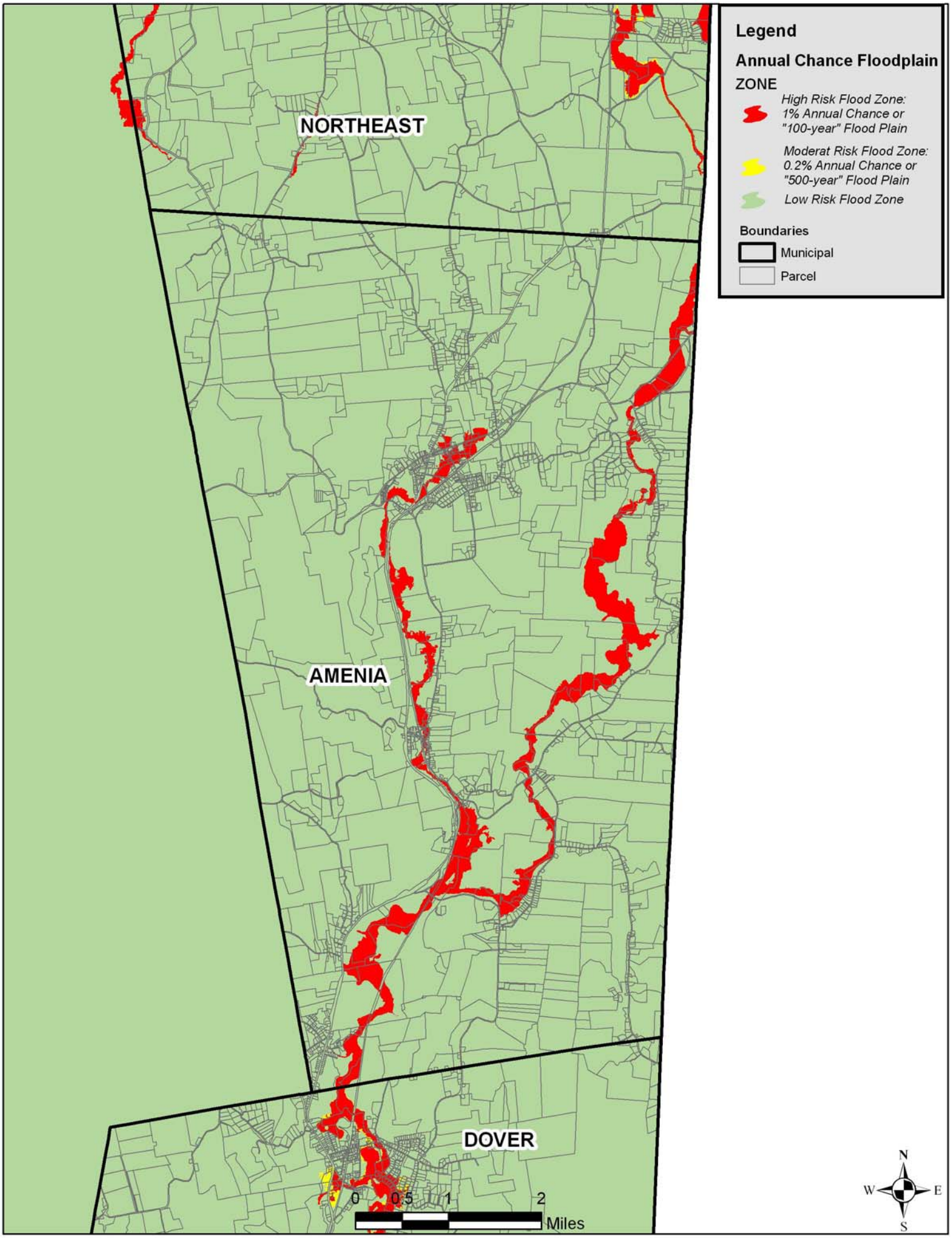
APPENDIX J –

ADDITIONAL INFORMATION

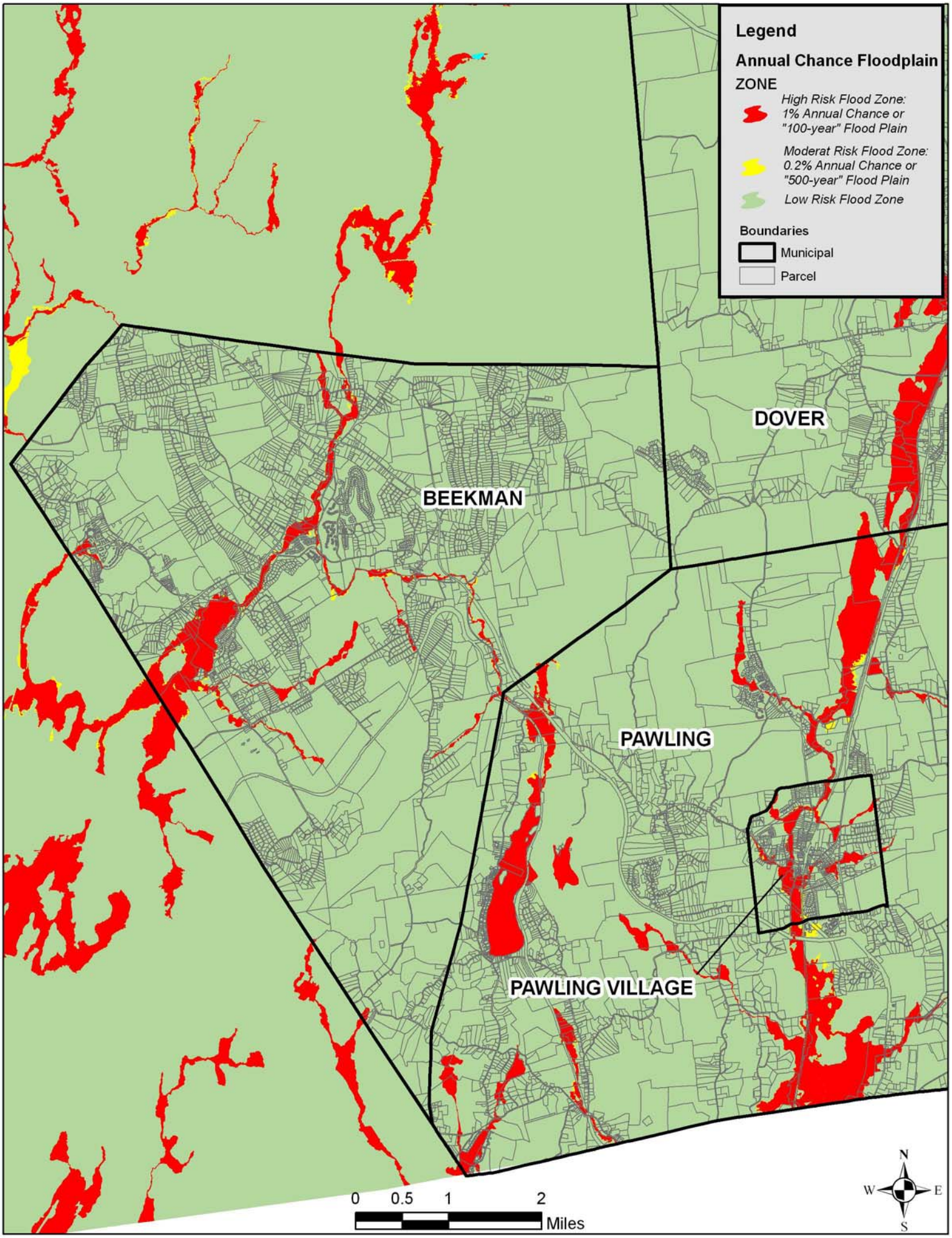
This appendix includes :

- **DFIRM Mapping for Participating Jurisdictions**
  - Note that a Letter of Final Determination was sent out in Jan 2010. FEMA expects that the DFIRMs will become effective in July 2010.

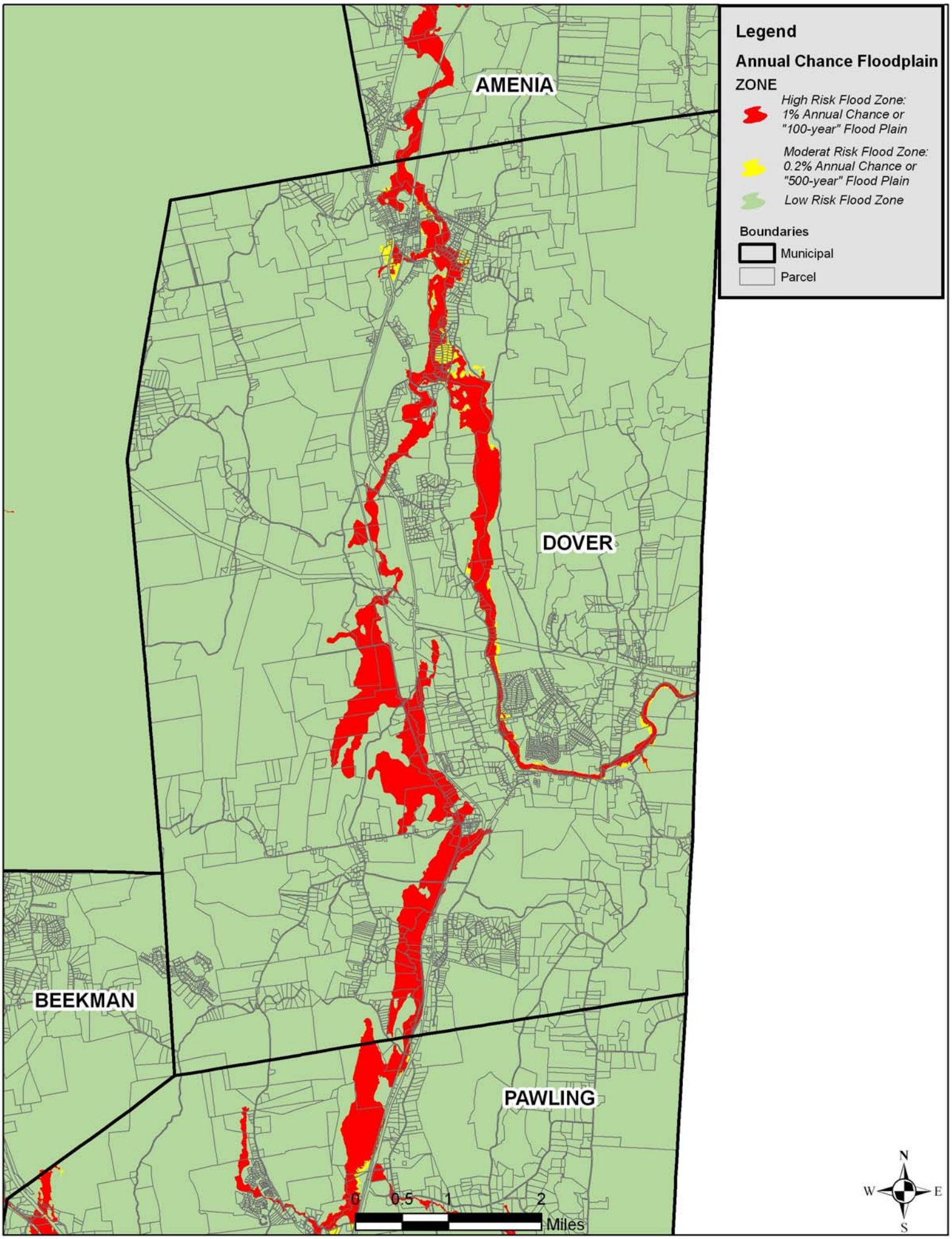
- **100-Yr Residential Property Exposure Mapping from the NY State Hazard Mitigation Plan**
  - Note that the New York State Hazard Mitigation Plan (January 2008) contains detailed tables of residential property values located in the high risk (1% annual chance) floodplain, as defined by FEMA Q3 data, using a methodology for which 100% of the value of residential property was deemed to be in the floodplain if the parcel centroid was located within the floodplain boundary, and 0% was deemed to be in the floodplain if the parcel centroid was located outside of the floodplain boundary. FEMA has recommended that this data should be directly incorporated into the Northern and Eastern Dutchess County Communities Regional Plan. After consideration of the reviewer's recommendation, the 100 year floodplain exposure information from the State Plan was not incorporated into the main text (Section 3) directly, because it was deemed more prudent to conduct our own separate – though similar - analysis using more recent data and an alternative methodology. There were three main factors contributing to this decision. First, the GIS parcel/assessed value data provided by Dutchess County for this plan, along with the latest equalization rates provided by the New York State Office of Real Property Services, provides values that are approximately 2 years more recent. Second, the most recent parcel/assessed value data available for our planning project has been used to quantify exposure to other delineable hazards, therefore consistent use of this data in the flood hazard profile, as well, allows for more meaningful comparisons between profiled hazards. Finally, our plan's approach involves an analysis of improvements within the 100 year floodplain using an alternate methodology for which a percentage of improved property within the floodplain was calculated as a percentage of parcel area covered by the floodplain (i.e., if the floodplain was found to cover 20% of the parcel area, then it was estimated that 20% of the value of all improved property on the parcel was also exposed to the flood hazard – differing from the State Plan which used older data and a methodology which assumed an "all or nothing" approach to exposure). This was done to account for uncertainties in the location of improvements in relation to the parcel centroids.
  - Implications to the Participating Jurisdictions: While Participating jurisdictions have used the exposure tables presented in Appendix A in their evaluation of risks and in their consideration of future projects, and while the dollar values in the table represents data which is superseded by other more recent data used for this planning project, in conjunction with an alternate methodology to calculate exposure, it does provide a handy visual when used to supplement information already included in the Main Text Section 3 and Appendix A.



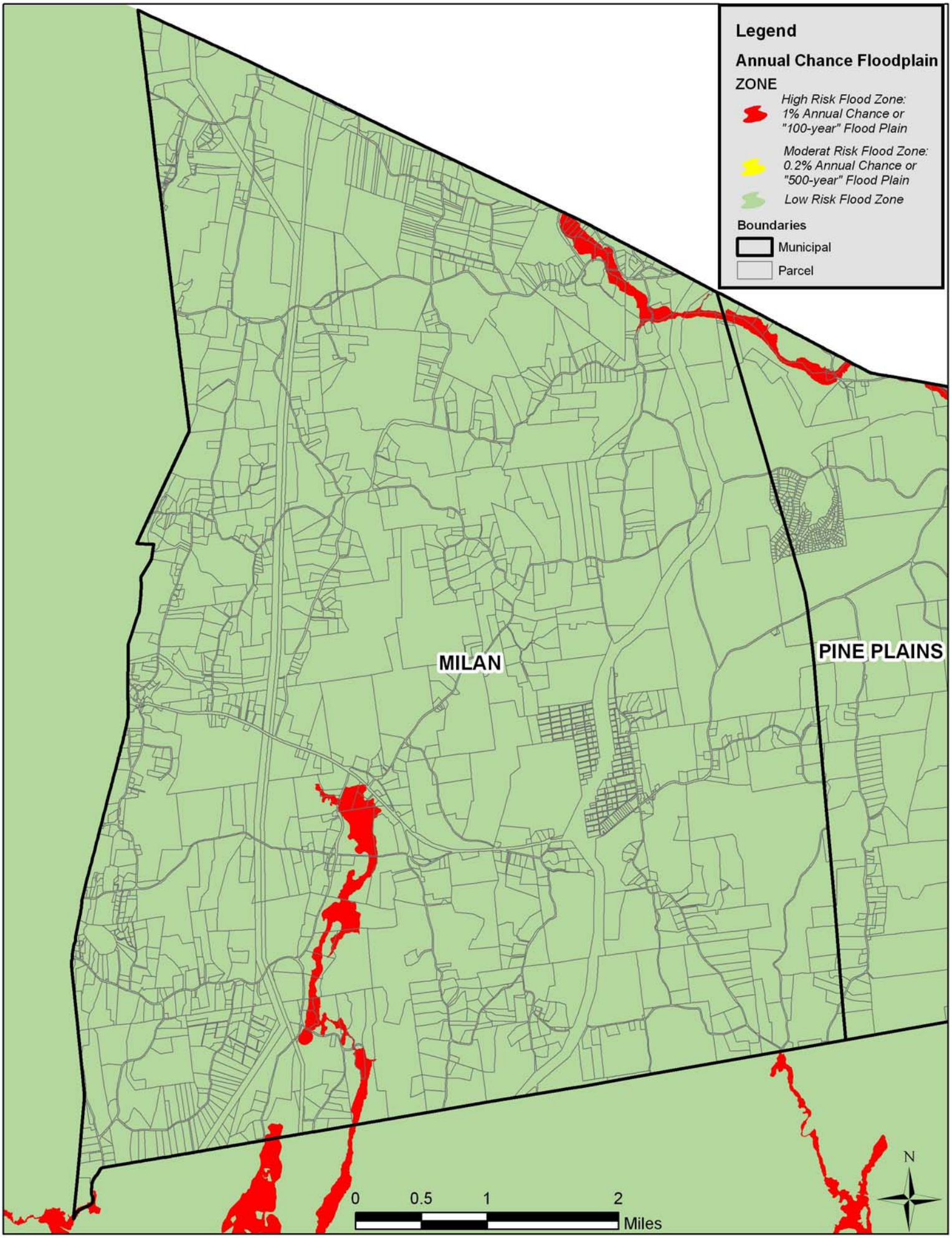
Source: DFIRM data; Amenia, Northeast, Dover NY Parcel Data



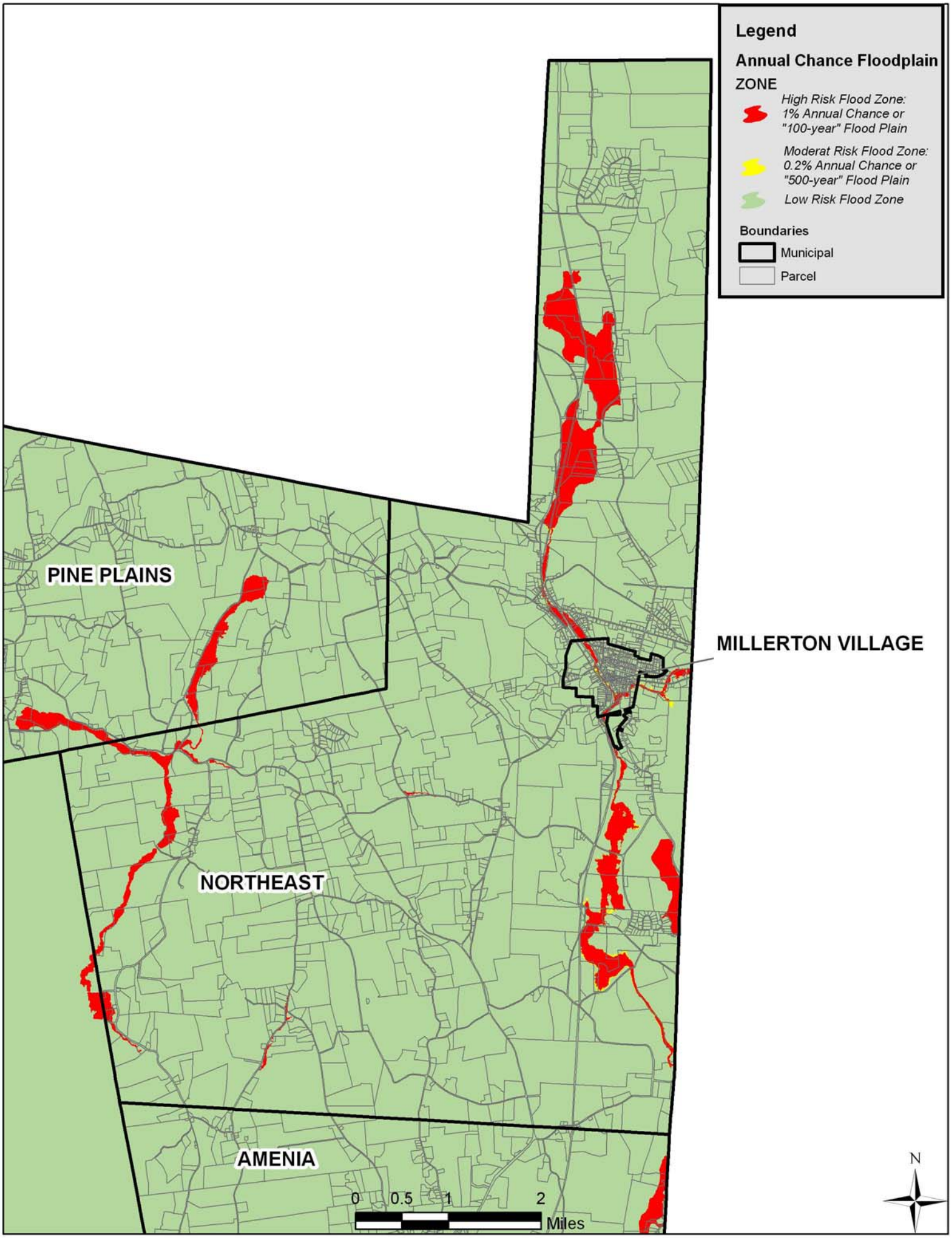
Source: DFIRM data; Beekman, Dover, Pawling, Pawling Village NY Parcel Data



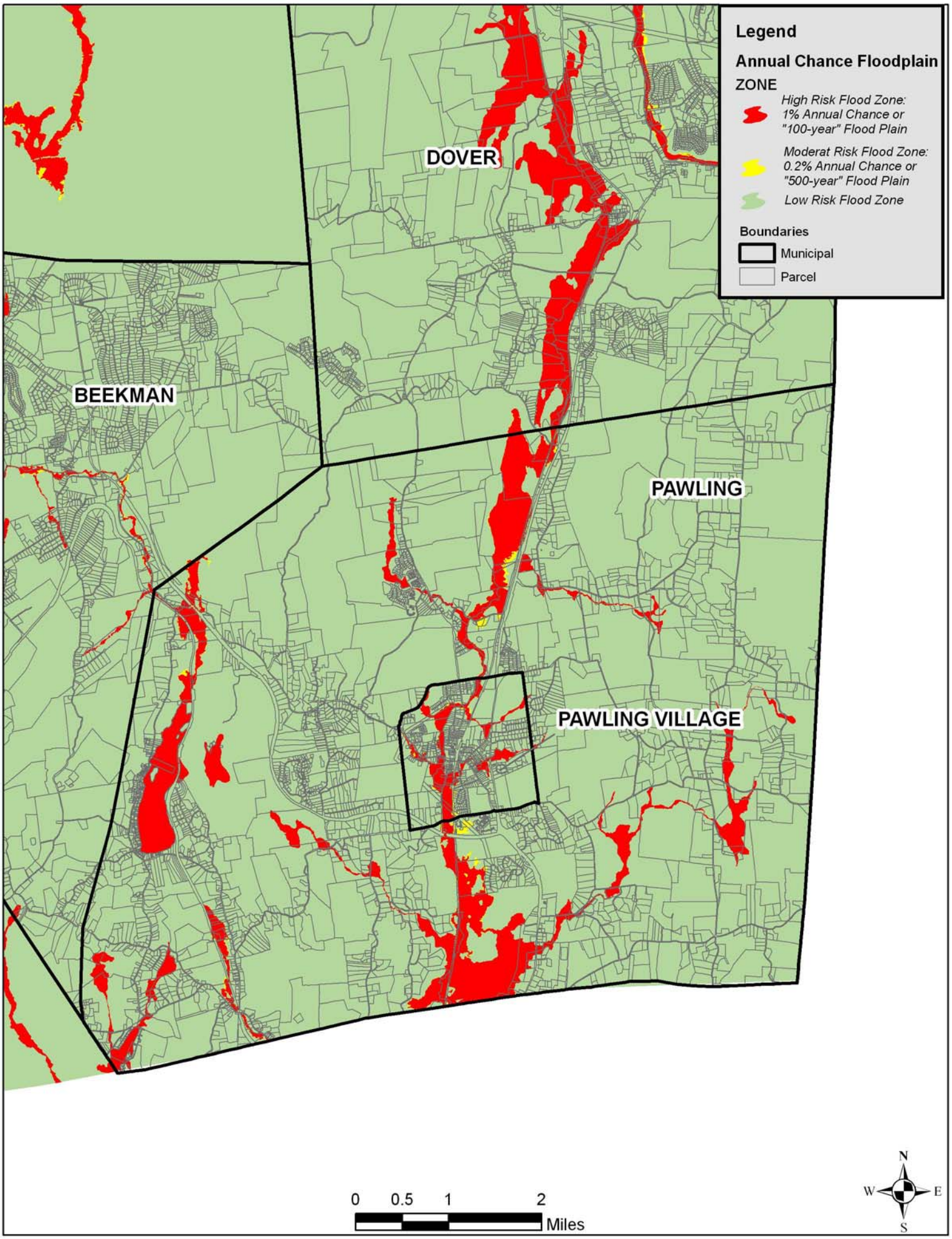
Source: DFIRM data; Amenia, Dover, Pawling, Beekman NY Parcel Data



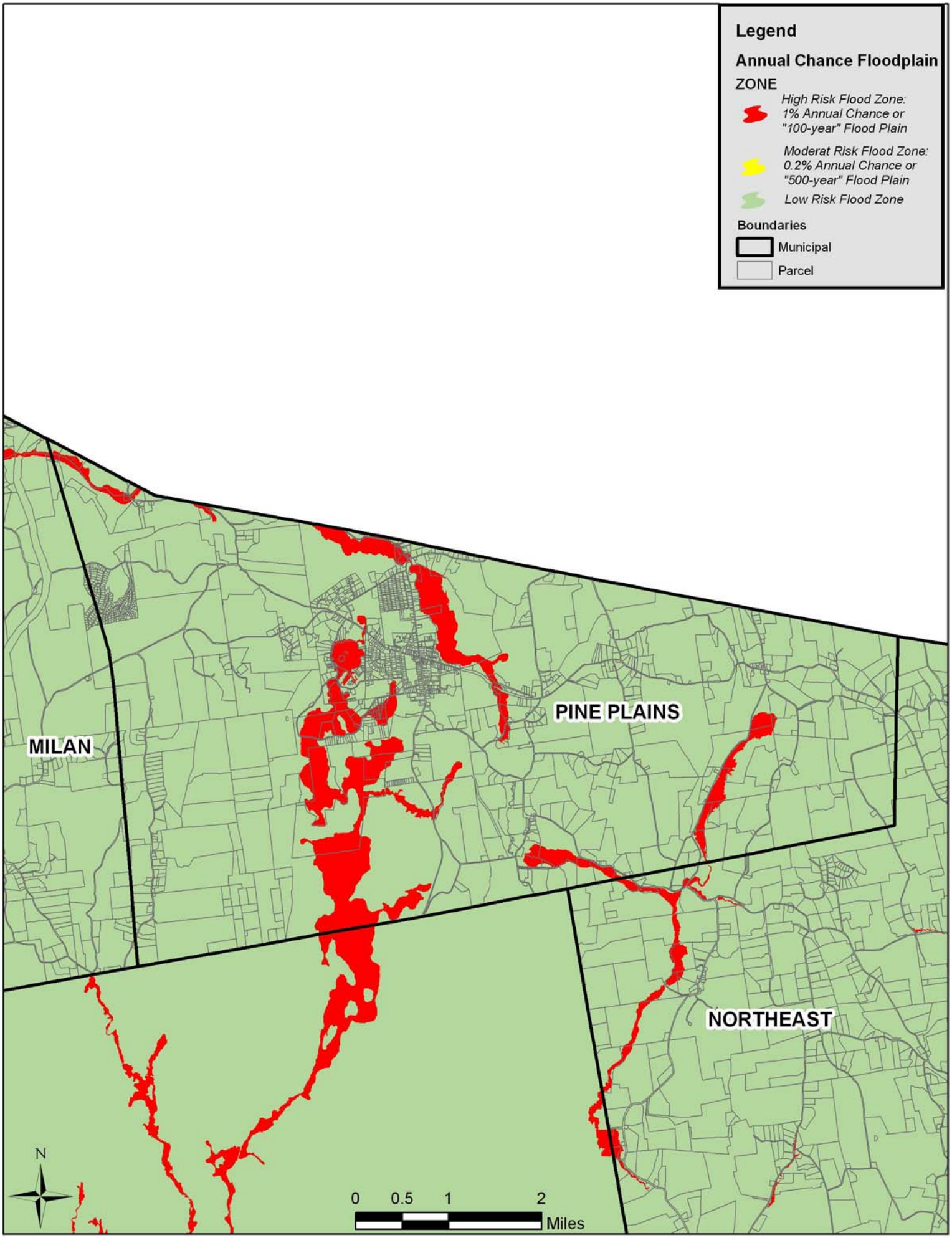
Source: DFIRM data; Milan, Pine Plains NY Parcel Data



Source: DFIRM data; Pine Plains, Northeast, Millerton Village, Amenia NY Parcel Data



Source: DFIRM data; Beekman, Dover, Pawling, Pawling Village NY Parcel Data



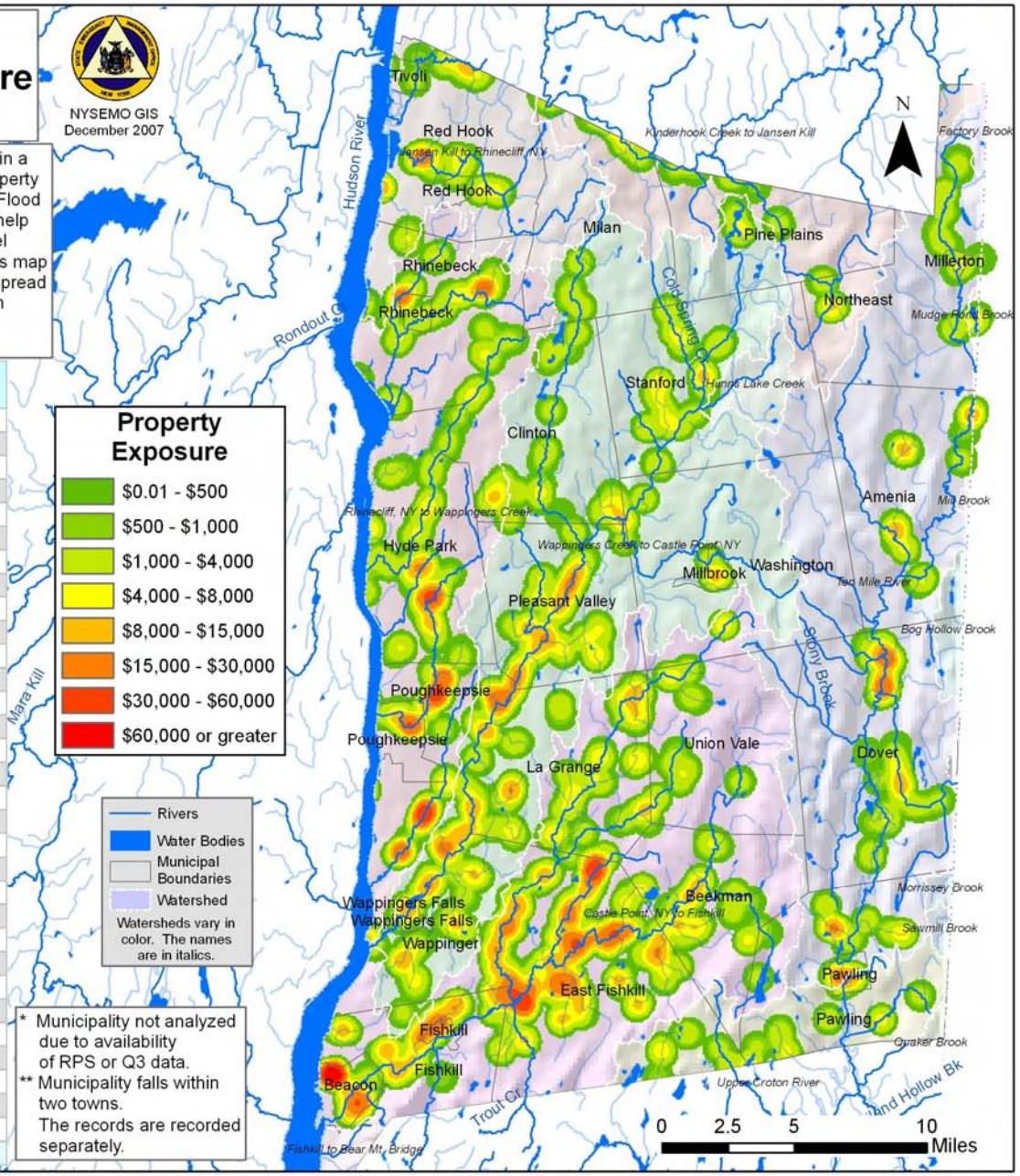
Source: DFIRM data; Milan, Pine Plains, Northeast NY Parcel Data

Dutchess County, NY Residential Property Exposure in 100-Year Floodplains

NYSEMO GIS
December 2007

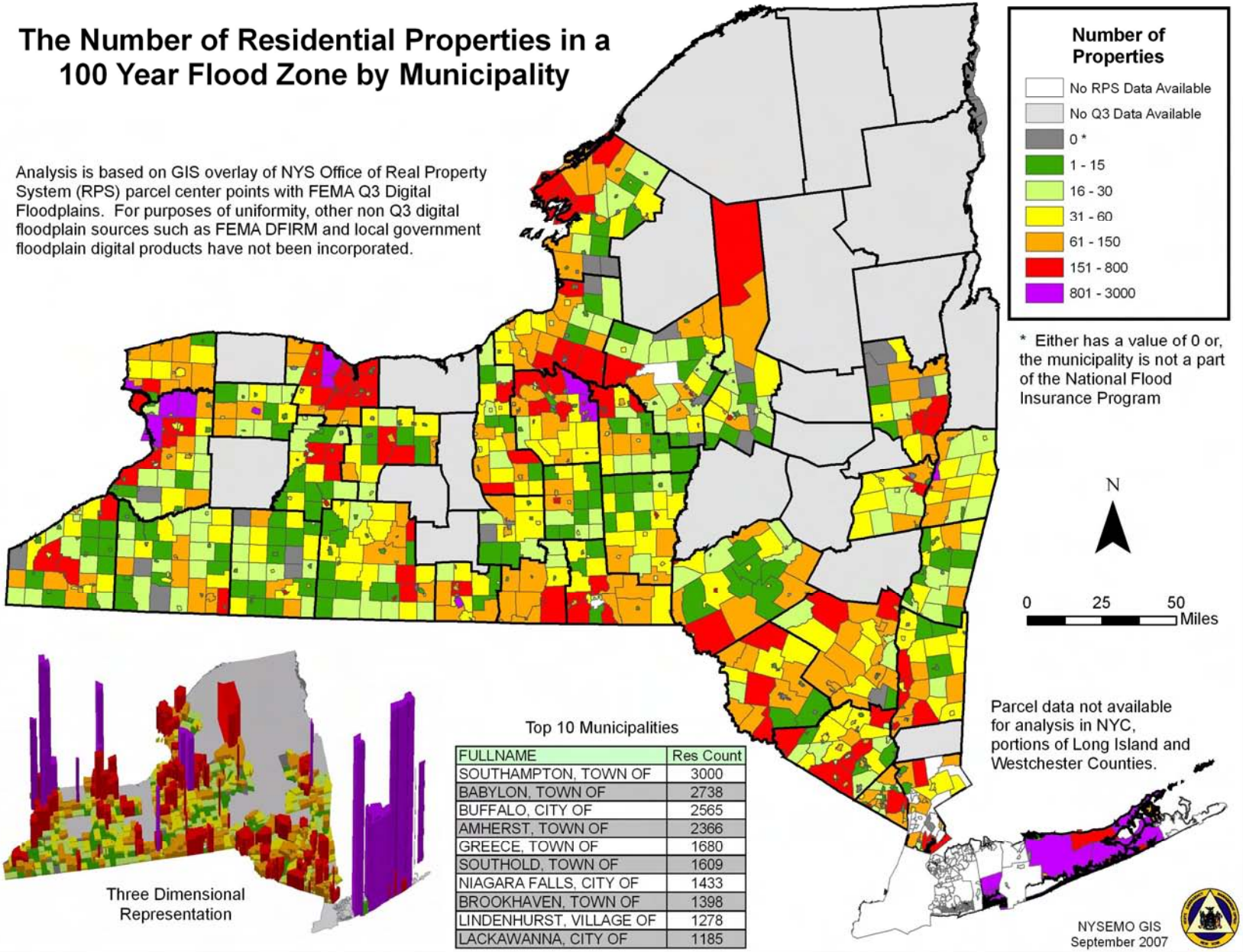
This map shows the location and combined value of property in a 100-year flood zone based on a GIS overlay of NYS Real Property System (RPS) parcel center points with the FEMA Q3 Digital Flood Map. A point density mapping technique has been applied to help visualize property exposure "hot spots" as the individual parcel center points are too numerous to be properly displayed at this map scale. The estimated dollar value of each property has been spread over a surface 1KM in diameter and summed with values from overlapping parcel surfaces. The legend scheme reflects the associated per acre dollar value of the resulting surface.

MUNICIPALITIES	Res Prop#	Residential Prop Value
AMENIA, TOWN OF	45	$13,707,718
BEACON, CITY OF	175	$46,180,427
BEEKMAN, TOWN OF	50	$18,030,225
CLINTON, TOWN OF	47	$17,372,113
DOVER, TOWN OF	115	$31,135,900
EAST FISHKILL, TOWN OF	399	$160,813,642
FISHKILL, TOWN OF	119	$38,478,874
FISHKILL, VILLAGE OF	21	$6,288,990
HYDE PARK, TOWN OF	157	$40,125,831
LA GRANGE, TOWN OF	141	$46,622,917
MILAN, TOWN OF	12	$4,305,400
MILLBROOK, VILLAGE OF	10	$3,402,000
MILLERTON, VILLAGE OF	9	$1,574,500
NORTHEAST, TOWN OF	50	$9,400,577
PAWLING, TOWN OF	35	$16,479,446
PAWLING, VILLAGE OF	33	$8,845,278
PINE PLAINS, TOWN OF	13	$3,295,025
PLEASANT VALLEY, TOWN OF	147	$41,362,600
POUGHKEEPSIE, CITY OF	59	$12,113,500
POUGHKEEPSIE, TOWN OF	362	$81,062,475
RED HOOK, TOWN OF	52	$22,622,000
RED HOOK, VILLAGE OF	*	*
RHINEBECK, TOWN OF	60	$22,502,833
RHINEBECK, VILLAGE OF	39	$7,645,000
STANFORD, TOWN OF	38	$16,465,210
TIVOLI, VILLAGE OF	1	$355,500
UNION VALE, TOWN OF	18	$6,670,000
WAPPINGER, TOWN OF	113	$31,577,996
WAPPINGERS FALLS, VILLAGE OF **	15	$2,712,360
WAPPINGERS FALLS, VILLAGE OF **	8	$1,801,428
WASHINGTON, TOWN OF	2	$2,538,000
DUTCHESS COUNTY	2,345	715,487,765



The Number of Residential Properties in a 100 Year Flood Zone by Municipality

Analysis is based on GIS overlay of NYS Office of Real Property System (RPS) parcel center points with FEMA Q3 Digital Floodplains. For purposes of uniformity, other non Q3 digital floodplain sources such as FEMA DFIRM and local government floodplain digital products have not been incorporated.



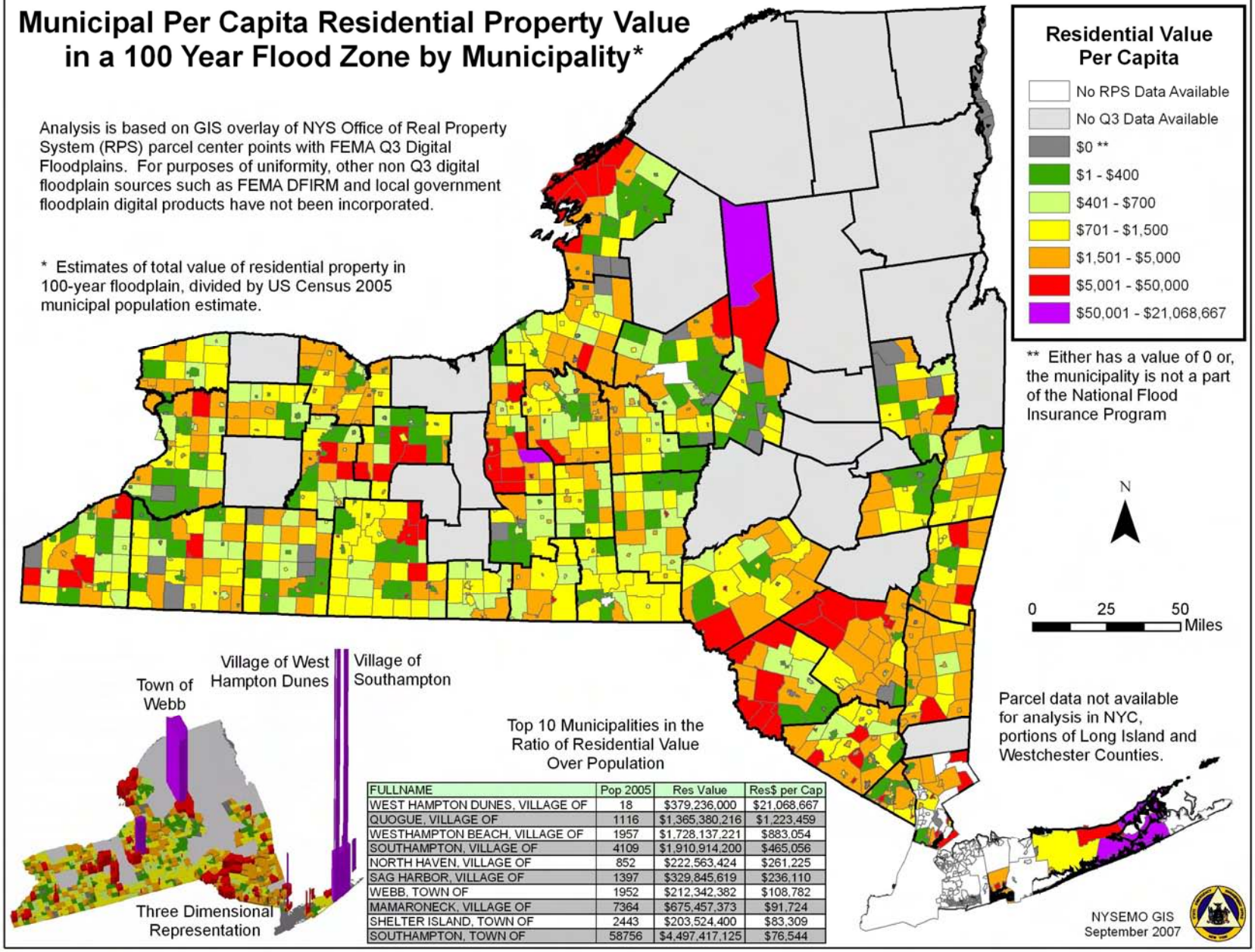
Top 10 Municipalities

FULLNAME	Res Count
SOUTHAMPTON, TOWN OF	3000
BABYLON, TOWN OF	2738
BUFFALO, CITY OF	2565
AMHERST, TOWN OF	2366
GREECE, TOWN OF	1680
SOUTHOLD, TOWN OF	1609
NIAGARA FALLS, CITY OF	1433
BROOKHAVEN, TOWN OF	1398
LINDENHURST, VILLAGE OF	1278
LACKAWANNA, CITY OF	1185

Municipal Per Capita Residential Property Value in a 100 Year Flood Zone by Municipality*

Analysis is based on GIS overlay of NYS Office of Real Property System (RPS) parcel center points with FEMA Q3 Digital Floodplains. For purposes of uniformity, other non Q3 digital floodplain sources such as FEMA DFIRM and local government floodplain digital products have not been incorporated.

* Estimates of total value of residential property in 100-year floodplain, divided by US Census 2005 municipal population estimate.



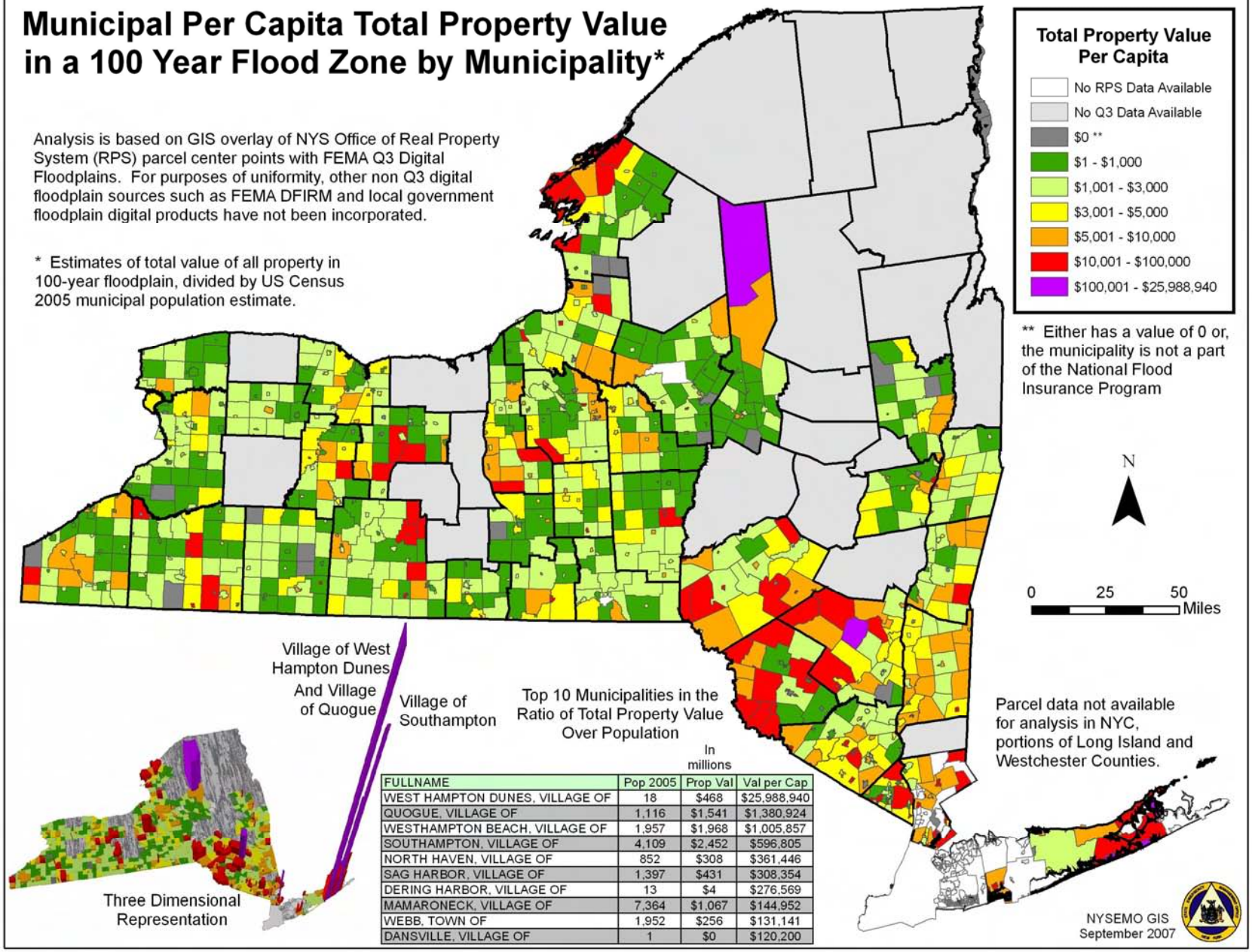
Top 10 Municipalities in the Ratio of Residential Value Over Population

FULLNAME	Pop 2005	Res Value	Res$ per Cap
WEST HAMPTON DUNES, VILLAGE OF	18	$379,236,000	$21,068,667
QUOGUE, VILLAGE OF	1116	$1,365,380,216	$1,223,459
WESTHAMPTON BEACH, VILLAGE OF	1957	$1,728,137,221	$883,054
SOUTHAMPTON, VILLAGE OF	4109	$1,910,914,200	$465,056
NORTH HAVEN, VILLAGE OF	852	$222,563,424	$261,225
SAG HARBOR, VILLAGE OF	1397	$329,845,619	$236,110
WEBB, TOWN OF	1952	$212,342,382	$108,782
MAMARONECK, VILLAGE OF	7364	$675,457,373	$91,724
SHELTER ISLAND, TOWN OF	2443	$203,524,400	$83,309
SOUTHAMPTON, TOWN OF	58756	$4,497,417,125	$76,544

Municipal Per Capita Total Property Value in a 100 Year Flood Zone by Municipality*

Analysis is based on GIS overlay of NYS Office of Real Property System (RPS) parcel center points with FEMA Q3 Digital Floodplains. For purposes of uniformity, other non Q3 digital floodplain sources such as FEMA DFIRM and local government floodplain digital products have not been incorporated.

* Estimates of total value of all property in 100-year floodplain, divided by US Census 2005 municipal population estimate.

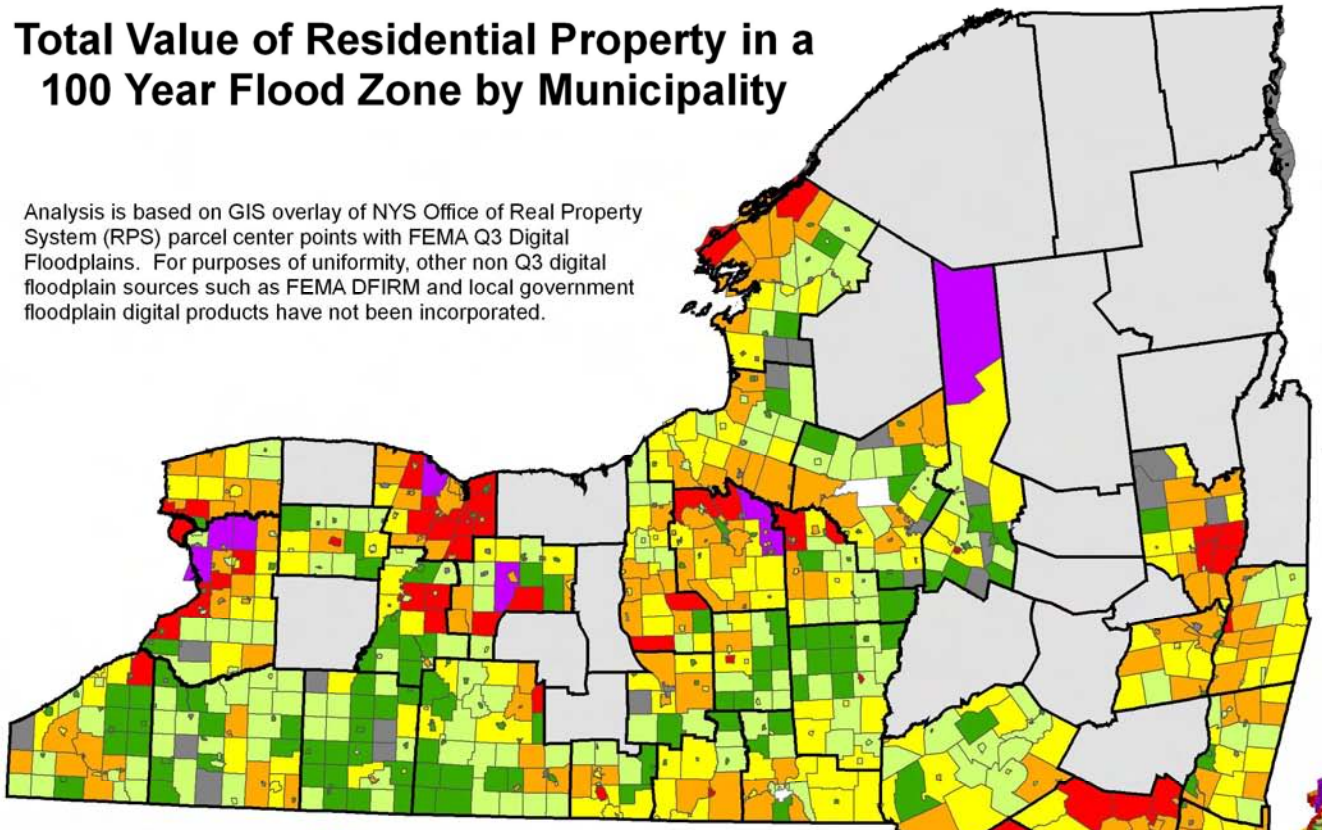


Top 10 Municipalities in the Ratio of Total Property Value Over Population

FULLNAME	Pop 2005	Prop Val (In millions)	Val per Cap
WEST HAMPTON DUNES, VILLAGE OF	18	$468	$25,988,940
QUOGUE, VILLAGE OF	1,116	$1,541	$1,380,924
WESTHAMPTON BEACH, VILLAGE OF	1,957	$1,968	$1,005,857
SOUTHAMPTON, VILLAGE OF	4,109	$2,452	$596,805
NORTH HAVEN, VILLAGE OF	852	$308	$361,446
SAG HARBOR, VILLAGE OF	1,397	$431	$308,354
DERING HARBOR, VILLAGE OF	13	$4	$276,569
MAMARONECK, VILLAGE OF	7,364	$1,067	$144,952
WEBB, TOWN OF	1,952	$256	$131,141
DANSVILLE, VILLAGE OF	1	$0	$120,200

Total Value of Residential Property in a 100 Year Flood Zone by Municipality

Analysis is based on GIS overlay of NYS Office of Real Property System (RPS) parcel center points with FEMA Q3 Digital Floodplains. For purposes of uniformity, other non Q3 digital floodplain sources such as FEMA DFIRM and local government floodplain digital products have not been incorporated.

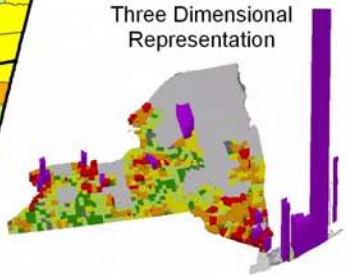


Total Value of Properties Millions of Dollars

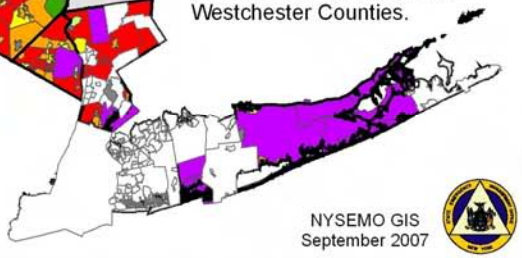
- No RPS Data Available
- No Q3 Data Available
- 0 *
- $1 - $1 mil
- $1.1 - $3
- $3.1 - $8
- $8.1 - $30
- $30.1 - $100
- $100.1 - $4,497.4

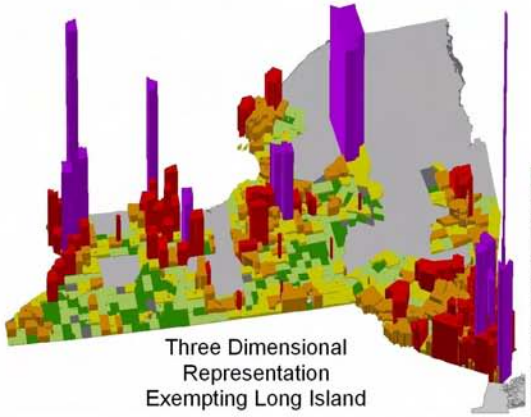
* Either has a value of 0 or, the municipality is not a part of the National Flood Insurance Program

Three Dimensional Representation



Parcel data not available for analysis in NYC, portions of Long Island and Westchester Counties.





Three Dimensional Representation Exempting Long Island

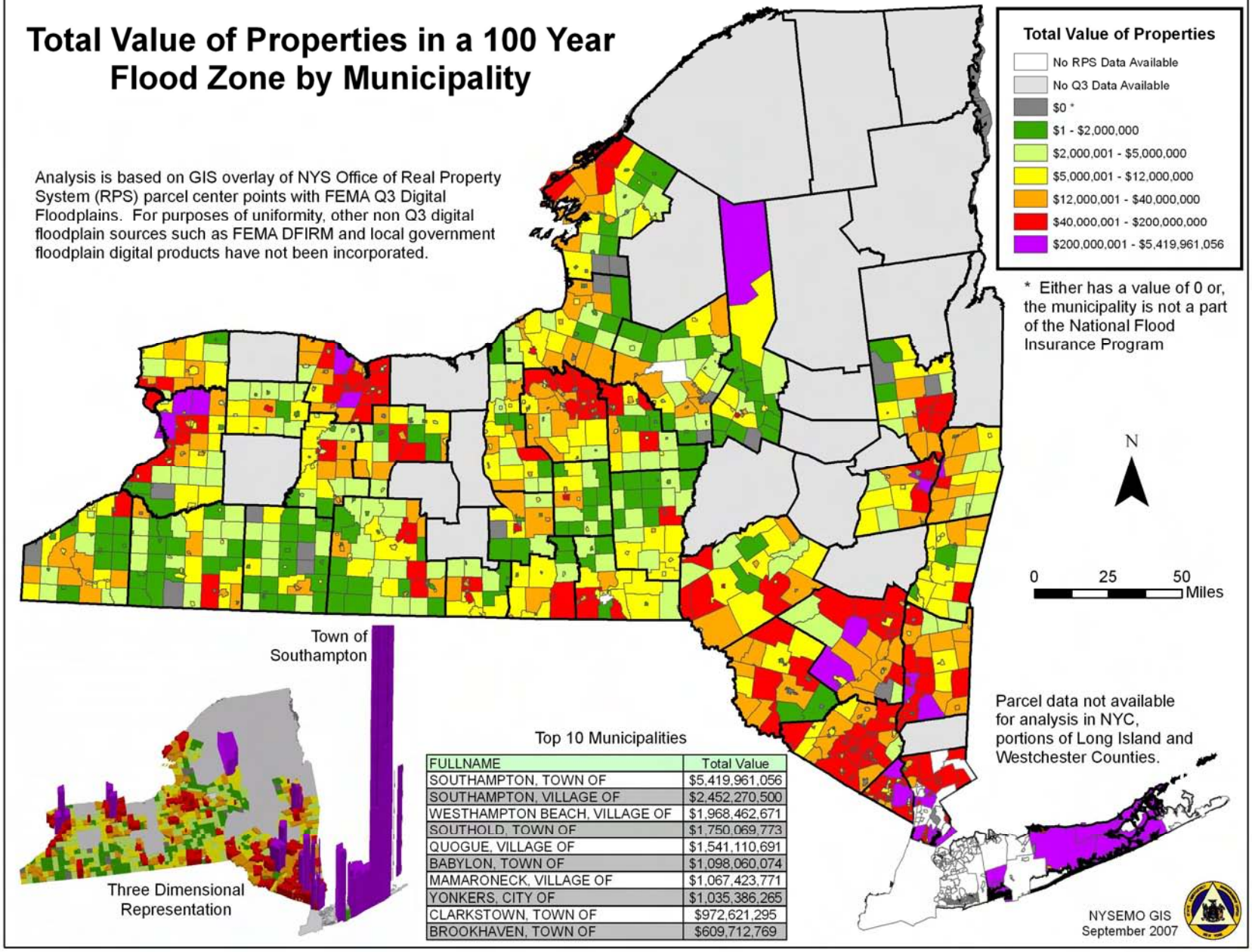
Top 10 Municipalities

FULLNAME	Value of Res
SOUTHAMPTON, TOWN OF	$4,497,417,125
SOUTHAMPTON, VILLAGE OF	$1,910,914,200
WESTHAMPTON BEACH, VILLAGE OF	$1,728,137,221
QUOGUE, VILLAGE OF	$1,365,380,216
SOUTHOLD, TOWN OF	$1,158,483,844
BABYLON, TOWN OF	$1,013,468,175
MAMARONECK, VILLAGE OF	$675,457,373
BABYLON, VILLAGE OF	$538,177,932
BROOKHAVEN, TOWN OF	$532,048,205
LINDENHURST, VILLAGE OF	$418,434,467

NYSEMO GIS
September 2007

Total Value of Properties in a 100 Year Flood Zone by Municipality

Analysis is based on GIS overlay of NYS Office of Real Property System (RPS) parcel center points with FEMA Q3 Digital Floodplains. For purposes of uniformity, other non Q3 digital floodplain sources such as FEMA DFIRM and local government floodplain digital products have not been incorporated.



Top 10 Municipalities

FULLNAME	Total Value
SOUTHAMPTON, TOWN OF	$5,419,961,056
SOUTHAMPTON, VILLAGE OF	$2,452,270,500
WESTHAMPTON BEACH, VILLAGE OF	$1,968,462,671
SOUTHOLD, TOWN OF	$1,750,069,773
QUOGUE, VILLAGE OF	$1,541,110,691
BABYLON, TOWN OF	$1,098,060,074
MAMARONECK, VILLAGE OF	$1,067,423,771
YONKERS, CITY OF	$1,035,386,265
CLARKSTOWN, TOWN OF	$972,621,295
BROOKHAVEN, TOWN OF	$609,712,769