

Appendix. G.
STAPLEE Criteria

Good=3, Average=2, Poor=1, N/A	S Social		T Technical			A Administrative			P Political			L Legal		E Economic				F Environmental				
	Community Acceptance	Effects on Segement of Population	Technical Feasiability	Long Term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance/ Operations	Political Support	Local Support	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effects on Land/Water	Effects of HAZMAT/ Waste Sites	Consistent with Community Environmental Goals	Consistent with Federal Laws
Actions																						
5. Monitor, evaluate and disseminate information on the effectiveness of Hazard Mitigation actions implemented by																						
a. Develop a process to track all completed mitigation projects in Massachusetts, including 406 mitigation and privately funded mitigation projects.	2	3	3	2	3	3	3	3	2	3	3	3	2	3	3	3	3	2	3	3	3	
b. Evaluate the feasibility of maintaining a database of potential mitigation projects across the state, taken from local hazard mitigation plans, Project Worksheets from the Public Assistance Process, and other sources.	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	
c. Prepare hazard mitigation best practices and case studies on a regular basis.	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	2	2	
d. Implement a standard information sharing procedure on disaster damage data collected by FEMA, PDA, Community Relations and Infrastructure Inspectors to use in local hazard mitigation planning efforts and identifying potential hazard mitigation projects.	3	2	3	3	2	3	3	3	2	3	2	3	2	3	3	3	2	n/a	n/a	3	3	
e. Improve the states capability assessment by intergrating the locally administered capabilities and the state level capabilities in order to show how mitigation at various levels is implemented and integrated. This will also show us any gaps or areas we can improve either state or local efforts to increase mitigation potential.	3	2	3	3	2	3	3	3	3	3	2	3	3	n/a	3	3	3	2	n/a	n/a	3	
f. Research best practices and then work with RPC's and local communities through outreach and education to help local communities strengthen the ownership of the planning process.	3	3	3	3	3	3	3	2	3	2	2	3	3	3	3	3	3	n/a	n/a	3	3	

APPENDIX H. STATE HAZARD MITIGATION PLAN UPDATE PROCESS PARTICIPANTS

AGENCIES

State Agencies Involved in Update Process

- Massachusetts Animal Response Team
- Massachusetts Bay Transit Authority
- Massachusetts Board of Building Regulation & Standards
- Massachusetts Board of Library Commissioners
- Massachusetts Bureau of Animal Health
- Massachusetts CFC
- Massachusetts Commission for Deaf and Hard of Hearing
- Massachusetts Department of Agricultural Resources
- Massachusetts Department of Conservation and Recreation
- Massachusetts Department of Environmental Protection (MassDEP)
- Massachusetts Department of Fire Services
- Massachusetts Department of Fish and Game (Several Divisions)
- Massachusetts Historical Commission
- Massachusetts Department of Housing & Economic Development
- Massachusetts Department of Mental Health
- Massachusetts Department of Public Education
- Massachusetts Department of Public Health
- Massachusetts Department of Transportation
- Massachusetts Division of Capital Asset Management and Maintenance (DCAMM)
- Massachusetts Division of Energy Resources
- Massachusetts Emergency Management Agency
- Massachusetts Executive Office of Energy and Environmental Affairs
- Massachusetts Executive Office of Public Safety and Security
- Massachusetts Fire Services/Hazardous Materials Response
- Massachusetts Information Technology Division
- Massachusetts Major City Police Chiefs Association Massachusetts State Police
- Massachusetts National Guard
- Massachusetts Office of Coastal Zone Management
- Massachusetts Office of Chief Medical Examiner
- Massachusetts Office of Disability
- Massachusetts State Fusion Center
- Massachusetts State Homeland Security Advisory Council
- Massachusetts State Police
- Massachusetts Statewide Interoperability Executive Committee
- Massachusetts USDA
- Massachusetts Voluntary Organizations Active in Disaster

Federal Agencies

- Federal Emergency Management Agency
- National Oceanic and Atmospheric Administration (NOAA) (new in 2013)
- National Weather Service
- Natural Resource Conservation Service
- U.S. Army Corp of Engineers, New England District
- U.S. Geologic Survey
- U.S. Coast Guard

Other Agencies

(Includes planning partners and stakeholders, agencies to which presentations were made, or from which information was gathered):

- American Red Cross
- Boston Civil Engineers (new in 2013)
- Boston Regional Intelligence Center
- Civil Engineers Society (new in 2013)
- Climate Change Adaptation Workshop (new in 2013)
- Climate Change and Coastal Hazard Committee (new in 2013)
- Franklin Regional Council of Governments
- Massachusetts Association of Regional Planning Agencies
- Massachusetts Fire Chiefs Association
- Massachusetts Geological Survey
- Massport
- Massachusetts' River Alliance (new in 2013)
- Metro Boston Homeland Security Region (new in 2013)

- Metro Boston Urban Areas Security Initiative (UASI) region
- New England Disaster Recovery Exchange
- Northeast States Emergency Consortium
- Regional Homeland Security Councils
- Salvation Army
- State Fusion Center (new in 2013)
- State Homeland Security Advisory Council (new in 2013)
- University of Massachusetts (Various departments)
- Weston Observatory at Boston College
- Woods Hole Oceanographic Institute

State Agency Survey Participants

- Board of Building Regulation & Standards
- Board of Building Regulation & Standards
- Coastal Zone Management
- Coastal Zone Management
- Dam Maintenance
- DCR Bureau of Forest Fire Control
- DCR Bureau of Forest Fire Control
- DCR Division of Planning and Engineering
- DCR Office of Water Resources
- Department of Environmental Protection, Bureau of Resource Protection
- Department of Environmental Protection, Bureau of Resource Protection
- Division of Agricultural Development

- Division of Capital Asset Management, Office of Facilities Management
- Division of Fisheries & Wildlife
- Massachusetts Board of Library Commissioners
- Massachusetts Department of Transportation
- Massachusetts Division of Marine Fisheries
- Massachusetts Historical Commission
- Massachusetts Historical Commission
- Massachusetts Water Resource Authority
- MassDEP
- Northeast States Emergency Consortium
- University of Massachusetts
- University of Massachusetts
- Weston Observatory

APPENDIX I. NATIONAL FLOOD INSURANCE PROGRAM CLAIMS

The National Flood Insurance Program data is a useful tool to determine the location of areas vulnerable to flood and severe storm hazards. Table I-1 summarizes the NFIP policies, claims, repetitive loss and severe repetitive loss properties in each Massachusetts county and municipality. The majority of the repetitive loss and severe repetitive loss properties are located in eastern Massachusetts, with the largest number along the coast in the counties of Barnstable, Essex, Middlesex, Norfolk, Plymouth and Suffolk.

TABLE I-1. NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY					
Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
Barnstable County					
Barnstable	1,101	283	\$2,951,965	19	—
Bourne	1,129	478	\$5,495,466	15	1
Brewster	91	16	\$33,895	—	—
Chatham	428	135	\$2,773,056	7	—
Dennis	1,084	227	\$1,436,080	18	1
Eastham	176	65	\$393,040	7	—
Falmouth	2,191	639	\$9,114,164	33	—
Harwich	580	46	\$446,015	3	—
Mashpee	533	67	\$221,641	3	—
Orleans	196	53	\$668,572	6	—
Provincetown	918	169	\$1,307,622	9	1
Sandwich	394	135	\$1,198,335	15	—
Truro	268	26	\$79,360	—	—
Wellfleet	175	33	\$308,068	—	—
Yarmouth	1,303	236	\$953,259	14	1
Berkshire County					
Adams	46	19	\$116,948	1	—
Alford	3	1	\$1,629	—	—
Becket	31	7	\$46,615	—	—
Cheshire	16	11	\$50,157	1	—
Clarksburg	9	1	\$2,255	—	—
Dalton	20	11	\$46,552	—	—
Egremont	16	8	\$34,052	2	—
Great Barrington	25	45	\$244,355	4	—
Hancock	6	1	\$4,353	—	—
Hinsdale	3	2	\$2,032	—	—
Lanesborough	10	3	\$86,049	—	—
Lee	72	12	\$42,035	2	—
Lenox	17	6	\$63,254	1	—
Monterey	24	26	\$558,688	5	—
New Ashford	1	—	—	—	—
New Marlborough	23	9	\$52,819	1	—
North Adams	15	15	\$284,140	1	—

**TABLE I-1.
NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY**

Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
Otis	28	4	\$32,005	—	—
Pittsfield	520	129	\$728,165	11	—
Richmond	14	1	\$0	—	—
Sandisfield	22	4	\$13,676	—	—
Sheffield	38	9	\$156,263	—	—
Stockbridge	47	16	\$91,740	1	—
Tyringham	5	—	—	—	—
West Stockbridge	24	11	\$28,457	1	—
Williamstown	125	21	\$125,138	—	—
Bristol County					
Acushnet	14	1	\$14,622	—	—
Attleboro	163	58	\$1,070,635	6	—
Berkley	55	13	\$62,562	1	—
Dartmouth	590	139	\$814,670	4	—
Dighton	109	73	\$888,479	5	—
Easton	98	23	\$120,300	3	—
Fairhaven	793	416	\$3,336,336	17	—
Fall River	79	19	\$93,645	1	—
Freetown	122	43	\$257,181	1	—
Mansfield	47	8	\$8,068	—	—
New Bedford	241	55	\$645,971	—	—
North Attleborough	152	36	\$153,438	—	—
Norton	99	55	\$311,383	5	—
Raynham	24	1	\$8,696	—	—
Rehoboth	27	11	\$103,607	1	—
Seekonk	33	13	\$126,528	1	—
Somerset	198	64	\$116,072	3	—
Swansea	416	144	\$522,545	5	—
Taunton	470	90	\$1,152,966	11	—
Westport	337	136	\$1,403,385	6	—
Dukes County					
Aquinnah	11	2	\$13,463	1	—
Edgartown	478	51	\$608,103	4	—
Gosnold	7	1	\$2,215	—	—
Oak Bluffs	220	73	\$723,875	9	—
Tisbury	147	35	\$257,609	3	—
West Tisbury	31	44	\$809,161	—	—
Essex County					
Amesbury	124	192	\$7,967,768	6	—
Andover	460	141	\$1,457,192	28	3
Beverly	339	10	\$40,439	17	—
Boxford	28	42	\$464,185	1	—
Danvers	258	—	—	5	—
Essex	48	80	\$1,134,688	8	—
Georgetown	65	20	\$257,362	4	—
Gloucester	482	306	\$5,079,488	27	2
Groveland	30	16	\$57,276	—	—

**TABLE I-1.
NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY**

Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
Hamilton	38	12	\$58,467	2	—
Haverhill	528	102	\$2,212,446	15	—
Ipswich	92	40	\$393,456	3	—
Lawrence	394	307	\$12,053,281	28	1
Lynn	441	159	\$1,110,612	18	1
Lynnfield	64	28	\$169,274	2	—
Manchester-By-The-Sea	126	82	\$1,039,607	19	—
Marblehead	245	215	\$1,984,230	20	2
Merrimac	26	6	\$15,571	—	—
Methuen	200	124	\$1,198,737	16	—
Middleton	18	11	\$137,868	2	—
Nahant	202	365	\$4,391,045	46	2
Newbury	431	208	\$1,320,036	16	—
Newburyport	573	229	\$1,998,820	20	—
North Andover	172	55	\$1,493,911	7	—
Peabody	603	327	\$7,153,279	44	2
Rockport	294	268	\$3,855,784	17	1
Rowley	8	—	—	—	—
Salem	242	128	\$993,074	15	—
Salisbury	1,183	347	\$4,552,046	34	2
Saugus	446	286	\$1,368,693	30	1
Swampscott	249	339	\$3,266,973	44	—
Topsfield	41	24	\$440,206	5	—
Wenham	15	2	\$724	—	—
West Newbury	18	3	\$103,188	1	—
Franklin					
Ashfield	6	2	\$63,936	—	—
Bernardston	12	—	—	—	—
Buckland	19	12	\$248,502	—	—
Charlemont	11	5	\$48,624	—	—
Colrain	8	3	\$10,992	—	—
Conway	6	8	\$179,061	—	—
Deerfield	32	8	\$96,379	1	—
Erving	2	1	\$0	—	—
Gill	4	1	\$0	—	—
Greenfield	48	49	\$3,023,959	1	—
Hawley	7	2	\$1,451	—	—
Heath	1	—	—	—	—
Leverett	6	3	\$16,978	1	—
Montague	11	2	\$1,208	—	—
Northfield	9	—	—	—	—
Orange	11	1	\$8,300	—	—
Shelburne	11	—	—	—	—
Sunderland	12	2	\$14,045	—	—
Whately	3	—	—	—	—
Hampden County					
Agawam	290	47	\$132,345	—	—

**TABLE I-1.
NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY**

Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
Brimfield	16	4	\$41,432	1	—
Chester	54	11	\$57,189	2	—
Chicopee	127	7	\$1,494	—	—
East Longmeadow	16	6	\$30,134	—	—
Granville	4	1	\$3,202	—	—
Hampden	23	18	\$469,760	2	—
Holland	47	6	\$19,457	—	—
Holyoke	22	12	\$47,890	1	—
Longmeadow	35	2	\$1,036	—	—
Ludlow	24	5	\$14,992	—	—
Monson	12	6	\$236,347	1	—
Palmer	34	4	\$59,488	—	—
Russell	28	3	\$1,771	—	—
Southwick	18	13	\$12,290	—	—
Springfield	86	14	\$6,829	—	—
Wales	7	—	—	—	—
West Springfield	41	26	\$118,442	—	—
Westfield	272	45	\$1,050,099	1	—
Wilbraham	29	7	\$37,651	1	—
Hampshire County					
Amherst	34	4	\$15,469	—	—
Belchertown	11	5	\$13,500	—	—
Chesterfield	3	—	—	—	—
Cummington	10	3	\$22,862	1	—
Easthampton	26	27	\$467,359	6	—
Goshen	2	—	—	—	—
Granby	22	2	\$0	—	—
Hadley	114	15	\$96,283	1	—
Hatfield	50	5	\$25,834	—	—
Huntington	27	10	\$100,995	—	—
Middlefield	4	4	\$44,692	—	—
Northampton	116	60	\$603,374	8	1
South Hadley	61	23	\$124,608	4	—
Southampton	11	7	\$57,123	—	—
Ware	32	7	\$13,249	—	—
Westhampton	6	—	—	—	—
Williamsburg	14	10	\$57,817	1	—
Worthington	12	2	\$4,091	—	—
Middlesex County					
Acton	136	43	\$227,605	5	—
Arlington	648	435	\$1,546,122	29	—
Ashby	6	—	—	—	—
Ashland	57	21	\$51,322	1	—
Ayer	31	3	\$7,783	—	—
Bedford	148	108	\$999,460	11	1
Belmont	48	22	\$107,573	2	—
Billerica	235	355	\$2,822,726	50	2

**TABLE I-1.
NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY**

Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
Boxborough	11	—	—	—	—
Burlington	122	40	\$180,482	8	—
Cambridge	231	53	\$1,932,976	2	—
Carlisle	17	1	\$0	—	—
Chelmsford	272	71	\$548,171	7	2
Concord	150	60	\$368,841	5	—
Dracut	54	22	\$349,249	2	—
Dunstable	6	—	—	—	—
Everett	14	10	\$63,613	3	—
Framingham	834	205	\$1,203,372	17	1
Groton	36	2	\$12,395	—	—
Holliston	87	24	\$102,801	3	—
Hopkinton	20	1	\$0	—	—
Hudson	55	13	\$8,444	—	—
Lexington	96	50	\$183,841	5	—
Lincoln	19	12	\$60,919	1	—
Littleton	19	13	\$85,915	—	—
Lowell	1,116	240	\$4,762,068	24	—
Malden	195	77	\$216,157	5	—
Marlborough	34	10	\$19,579	—	—
Maynard	19	6	\$7,105	—	—
Medford	69	35	\$184,265	5	—
Melrose	317	86	\$726,683	10	—
Natick	79	32	\$257,496	4	—
Newton	483	369	\$1,817,651	42	2
North Reading	83	116	\$769,433	20	1
Pepperell	34	20	\$186,126	2	—
Reading	37	21	\$63,750	2	—
Sherborn	6	5	\$22,209	—	—
Shirley	14	13	\$159,634	1	—
Somerville	38	22	\$831,053	2	—
Stoneham	18	3	\$2,443	—	—
Stow	19	1	\$0	—	—
Sudbury	68	19	\$55,867	3	—
Tewksbury	114	69	\$369,446	8	—
Townsend	30	16	\$43,801	2	—
Tyngsborough	130	28	\$2,167,315	8	—
Wakefield	109	76	\$436,898	12	1
Waltham	186	142	\$1,145,587	15	—
Watertown	93	18	\$788,690	2	—
Wayland	62	26	\$96,514	5	—
Westford	99	13	\$76,521	—	—
Weston	90	30	\$206,398	3	—
Wilmington	79	35	\$166,198	3	—
Winchester	433	137	\$3,822,529	29	3
Woburn	47	44	\$803,486	7	—

**TABLE I-1.
NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY**

Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
Nantucket County					
Nantucket	896	414	\$12,222,739	49	—
Norfolk County					
Avon	15	2	\$717	—	—
Bellingham	64	19	\$68,215	—	—
Braintree	278	157	\$1,958,022	18	—
Brookline	89	23	\$373,417	3	—
Canton	80	33	\$111,810	2	—
Cohasset	165	114	\$1,104,789	10	—
Dedham	302	54	\$230,706	1	—
Dover	37	12	\$77,889	—	—
Foxborough	48	7	\$13,928	—	—
Franklin	56	31	\$139,373	5	—
Holbrook	84	44	\$487,942	5	—
Medfield	38	3	\$24,676	—	—
Medway	122	5	\$98,387	1	—
Millis	26	14	\$17,152	—	—
Milton	124	66	\$543,533	6	—
Needham	91	38	\$92,017	4	—
Norfolk	45	52	\$163,673	3	—
Norwood	70	28	\$600,610	2	—
Plainville	20	2	\$5,929	—	—
Quincy	3,396	1487	\$7,974,301	169	11
Randolph	103	27	\$100,110	2	—
Sharon	64	33	\$93,871	—	—
Stoughton	158	33	\$64,926	1	—
Walpole	70	15	\$60,325	—	—
Wellesley	110	48	\$167,319	4	—
Westwood	60	37	\$144,246	4	—
Weymouth	667	233	\$1,111,111	25	1
Wrentham	19	2	\$7,000	—	—
Plymouth County					
Abington	26	12	\$27,649	—	—
Bridgewater	74	26	\$63,287	2	—
Brockton	470	314	\$1,855,891	38	1
Carver	7	9	\$24,692	—	—
Duxbury	278	333	\$3,953,145	42	1
East Bridgewater	31	8	\$50,651	1	—
Halifax	20	5	\$7,922	1	—
Hanover	61	14	\$69,319	—	—
Hanson	3	8	\$13,078	—	—
Hingham	249	118	\$682,459	10	—
Hull	2,231	2179	\$13,798,651	238	16
Kingston	66	18	\$72,912	—	—
Lakeville	71	36	\$654,958	1	—
Marion	527	177	\$2,893,696	6	—
Marshfield	1,389	1324	\$14,356,303	158	7

**TABLE I-1.
NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY**

Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
Mattapoissett	831	479	\$6,756,475	13	—
Middleborough	47	20	\$181,503	1	—
Norwell	37	12	\$51,230	2	—
Pembroke	49	11	\$21,591	—	—
Plymouth	441	370	\$4,486,532	37	—
Plympton	8	6	\$64,937	—	—
Rochester	10	1	\$0	—	—
Rockland	69	9	\$28,635	—	—
Scituate	1,473	3296	\$53,894,031	490	82
Wareham	2,049	869	\$11,607,645	19	—
West Bridgewater	32	6	\$6,192	—	—
Whitman	15	17	\$210,736	1	—
Suffolk County					
Boston	1,011	261	\$1,028,241	23	—
Chelsea	19	24	\$74,283	1	—
Revere	2,021	2499	\$14,625,217	293	17
Winthrop	1,107	1130	\$5,842,323	140	5
Worcester County					
Ashburnham	19	2	\$5,199	—	—
Athol	16	2	\$22,247	—	—
Auburn	63	22	\$82,921	1	—
Barre	13	2	\$6,340	—	—
Berlin	6	—	—	—	—
Blackstone	21	7	\$12,380	—	—
Bolton	16	4	\$12,916	1	—
Boylston	5	3	\$9,553	—	—
Brookfield	24	23	\$604,099	4	—
Charlton	50	1	\$0	—	—
Clinton	123	29	\$385,448	3	—
Douglas	15	3	\$4,886	—	—
Dudley	22	4	\$15,816	—	—
East Brookfield	12	2	\$8,308	—	—
Fitchburg	72	31	\$379,453	4	—
Gardner	5	—	—	—	—
Grafton	48	17	\$121,752	1	—
Harvard	11	—	—	—	—
Holden	11	3	\$2,225	—	—
Hopedale	7	1	\$4,854	—	—
Hubbardston	4	—	—	—	—
Lancaster	47	34	\$327,171	5	1
Leicester	32	13	\$141,075	3	—
Leominster	105	25	\$98,077	4	—
Lunenburg	21	2	\$2,538	—	—
Mendon	9	—	—	—	—
Milford	46	20	\$64,559	1	—
Millbury	53	17	\$119,916	1	—
Millville	6	4	\$9,859	—	—

**TABLE I-1.
NFIP POLICIES, CLAIMS AND REPETITIVE LOSS STATISTICS BY MUNICIPALITY**

Community Name	Policies in Force	Claims	Total Loss Payment	Repetitive Losses	Severe Repetitive Losses
New Braintree	1	—	—	—	—
North Brookfield	9	2	\$7,063	—	—
Northborough	83	6	\$22,415	—	—
Northbridge	48	29	\$647,568	2	—
Oakham	3	1	\$4,690	—	—
Oxford	17	5	\$16,742	—	—
Paxton	1	—	—	—	—
Petersham	1	—	—	—	—
Princeton	3	1	\$6,722	—	—
Royalston	1	—	—	—	—
Rutland	7	—	—	—	—
Shrewsbury	65	14	\$28,356	—	—
Southborough	31	1	\$0	—	—
Southbridge	70	27	\$1,016,688	1	—
Spencer	20	1	\$0	—	—
Sterling	9	1	\$6,546	—	—
Sturbridge	36	10	\$32,149	2	—
Sutton	23	4	\$19,524	1	—
Templeton	5	—	—	—	—
Upton	10	—	—	—	—
Uxbridge	40	19	\$463,653	1	—
Warren	5	1	\$40,072	—	—
Webster	15	6	\$1,471	—	—
West Boylston	68	3	\$46,497	1	—
West Brookfield	22	2	\$5,341	—	—
Westborough	39	8	\$30,890	—	—
Westminster	19	6	\$7,895	1	—
Winchendon	19	2	\$420	—	—
Worcester	519	228	\$4,195,670	29	—
Total	58,673	30,123	\$324,863,088	3,062	177