

Sea Level Rise Scenarios Affecting Roads

Town of Warren









Map Created: 8/12/2016

Map Legend

NOTES:

The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

- | | | | |
|---|--------------------------------|---|----------------------------|
|  | Current Mean Higher High Water |  | City and Town Boundaries |
|  | 1Ft Sea Level Rise |  | Potentially Affected Roads |
|  | 3Ft Sea Level Rise |  | Roads |
|  | 5Ft Sea Level Rise | | |
|  | 7Ft Sea Level Rise | | |

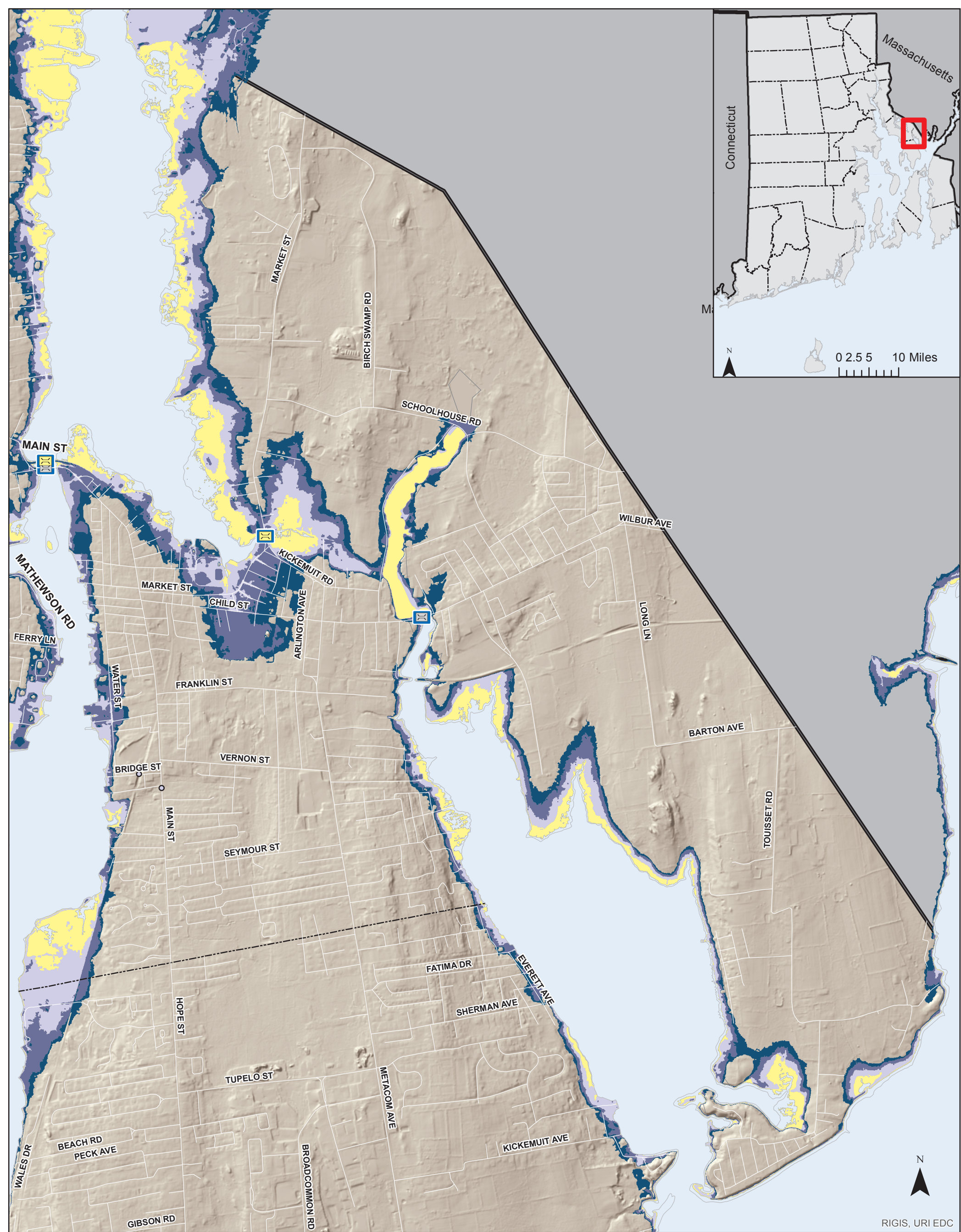
0 0.125 0.25 0.5 Miles



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Relative Road Vulnerability to Sea Level Rise													
Warren			Linear Feet of Road Inundated At:										
Muni Rank	State Rank	Road Name	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
1	9	MAIN ST	13	343	521	154	1,031	3.18	Yes	Yes	Principal Art.	4.40	7.58
2	33	MARKET ST		1,104	1,381	361	2,846	3.35	Yes	No	Minor Art.	2.72	6.07
3	95	CHILD ST	27	324	892	903	2,147	2.56	Yes	No	Principal Art.	2.52	5.08
4	97	KICKEMUIT RD		60	1,001	362	1,423	2.39	Yes	No	Minor Art.	2.68	5.08
5	199	REDMOND ST		363			363	3.50	No	No	Local	0.60	4.10
6	203	SERPENTINE RD		2	1,444	1,683	3,129	3.50	No	No	Local	0.60	4.10
7	207	BENEFIT ST			588	8	596	3.47	No	No	Local	0.60	4.07
8	221	HARDING AVE	200	17	99	51	368	3.40	No	No	Local	0.60	4.00
9	273	WATER ST		391	1,030	324	1,746	3.13	No	No	Minor Coll.	0.60	3.73
10	350	METACOM AVE		234	75	66	375	2.75	No	No	Local	0.60	3.35
11	364	LAUREL LN		151	58	43	252	2.70	No	No	Local	0.60	3.30
12	384	ASSELIN ST		331	209	56	595	2.61	No	No	Local	0.60	3.21
13	428	WOOD ST		361	270	115	746	2.47	No	No	Local	0.60	3.07
14	439	ELLIS AVE		222	279		501	2.39	No	No	Local	0.60	2.99
15	460	MASON ST		344	226	292	862	2.30	No	No	Local	0.60	2.90
16	501	SCHOOLHOUSE RD			498	268	766	1.50	No	No	Major Coll.	1.20	2.70
17	502	TOUISSET RD			4	16	20	1.50	No	No	Major Coll.	1.20	2.70
18	564	NOBERT ST			74	232	306	1.50	No	No	Local	0.60	2.10
19	565	PARKER AVE		17	66	46	129	1.50	No	No	Local	0.60	2.10
20	1,095	ADAMS ST				13	13	1.50	No	No	Local	0.60	2.10
21	1,096	BAKER ST			60	43	102	1.50	No	No	Local	0.60	2.10
22	1,097	BARKER AVE			148	153	301	1.50	No	No	Local	0.60	2.10
23	1,098	BAY RD		47	459	47	553	1.50	No	No	Local	0.60	2.10
24	1,099	BAY ST				230	230	1.50	No	No	Local	0.60	2.10
25	1,100	BEACH ST			27	26	53	1.50	No	No	Local	0.60	2.10
26	1,101	BRADFORD RD			28	118	146	1.50	No	No	Local	0.60	2.10
27	1,102	BROWN ST				224	224	1.50	No	No	Local	0.60	2.10
28	1,103	CENTRAL ST			481		481	1.50	No	No	Local	0.60	2.10
29	1,104	CHURCH ST			46	63	108	1.50	No	No	Local	0.60	2.10
30	1,105	CLARK RD			99	54	153	1.50	No	No	Local	0.60	2.10
31	1,106	COMPANY ST		89	178	66	333	1.50	No	No	Local	0.60	2.10
32	1,107	CONNOLLY AVE		43	99	96	239	1.50	No	No	Local	0.60	2.10
33	1,108	CROADE ST				18	18	1.50	No	No	Local	0.60	2.10
34	1,109	DAPONTE DR			116	125	242	1.50	No	No	Local	0.60	2.10
35	1,110	EVERETT ST				626	626	1.50	No	No	Local	0.60	2.10
36	1,111	FEDERAL ST				20	20	1.50	No	No	Local	0.60	2.10
37	1,112	HAILE ST			62	36	98	1.50	No	No	Local	0.60	2.10
38	1,113	HANDY ST			49	202	251	1.50	No	No	Local	0.60	2.10
39	1,114	HARRIS AVE		35	51	88	174	1.50	No	No	Local	0.60	2.10
40	1,115	HOPE ST				61	61	1.50	No	No	Local	0.60	2.10
41	1,116	JOHN ST		72	165		237	1.50	No	No	Local	0.60	2.10
42	1,117	JOHNSON ST			52	86	138	1.50	No	No	Local	0.60	2.10
43	1,118	KELLY ST		27	101	248	375	1.50	No	No	Local	0.60	2.10
44	1,119	KINNICUTT AVE			32	83	115	1.50	No	No	Local	0.60	2.10
45	1,120	LINCOLN AVE			66	128	194	1.50	No	No	Local	0.60	2.10
46	1,121	LOCUST TER			124	226	350	1.50	No	No	Local	0.60	2.10
47	1,122	MAPLE RD				225	225	1.50	No	No	Local	0.60	2.10
48	1,123	MAPLE ST				42	42	1.50	No	No	Local	0.60	2.10
49	1,124	MARTIN ST			77	236	313	1.50	No	No	Local	0.60	2.10
50	1,125	MEADOW ST				29	29	1.50	No	No	Local	0.60	2.10
51	1,126	MILL ST			200		200	1.50	No	No	Local	0.60	2.10
52	1,127	MILLER ST			46	66	112	1.50	No	No	Local	0.60	2.10
53	1,128	MULBERRY ST			348		348	1.50	No	No	Local	0.60	2.10
54	1,129	PALMER AVE		76	116	163	355	1.50	No	No	Local	0.60	2.10
55	1,130	PARK ST				204	204	1.50	No	No	Local	0.60	2.10
56	1,131	PATTERSON AVE		78	102	43	222	1.50	No	No	Local	0.60	2.10
57	1,132	PENNSYLVANIA AVE			269	413	682	1.50	No	No	Local	0.60	2.10
58	1,133	RIVERVIEW ST				71	71	1.50	No	No	Local	0.60	2.10
59	1,134	ROSELAND AVE			91	148	239	1.50	No	No	Local	0.60	2.10
60	1,135	SAINT THERESA DR		50	69	92	211	1.50	No	No	Local	0.60	2.10
61	1,136	SEAVIEW AVE				74	74	1.50	No	No	Local	0.60	2.10
62	1,137	SHIPYARD LN		83	278		360	1.50	No	No	Local	0.60	2.10
63	1,138	SHORE DR				180	180	1.50	No	No	Local	0.60	2.10
64	1,139	THOMPSON ST			231		231	1.50	No	No	Local	0.60	2.10
65	1,140	WARD ST			417		417	1.50	No	No	Local	0.60	2.10
66	1,141	WATERVIEW				285	285	1.50	No	No	Local	0.60	2.10
67	1,142	WESTMINSTER ST			257		257	1.50	No	No	Local	0.60	2.10
68	1,143	WHEATON ST				152	152	1.50	No	No	Local	0.60	2.10
69	1,144	WILLIAM ST			435	251	686	1.50	No	No	Local	0.60	2.10
70	1,145	CAMPBELL ST		39	207	87	332	1.50	No	No	Local	0.60	2.10

Muni Rank	State Rank	Road Name	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
71	1,387	BRIDGE		40	36	30	106	1.50	No	No	Local	0.60	2.10
72	1,388	CHESTNUT ST			103	175	278	1.50	No	No	Local	0.60	2.10
73	1,389	CRESCENT ST		75	410		485	1.50	No	No	Local	0.60	2.10
74	1,390	HALL AVE		11	161	136	308	1.50	No	No	Local	0.60	2.10
75	1,391	LONGWHARF DR			182	113	295	1.50	No	No	Local	0.60	2.10
76	1,392	READ AVE			40	306	346	1.50	No	No	Local	0.60	2.10
		TOTAL LINEAR FEET	241	5,029	15,229	11,579	32,077						



Sea Level Rise Scenarios Affecting Bridges

Town of Warren

Map Created: 8/12/2016

Map Legend

NOTES:

The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

- | | | |
|--|--------------------------------|--------------------------|
| Freeboard Potentially Affected by SLR | Current Mean Higher High Water | City and Town Boundaries |
| Freeboard Unlikely to be Affected by SLR | 1ft Sea Level Rise | Roads |
| Not Exposed to SLR | 3ft Sea Level Rise | |
| Bridge Accessible | 5ft Sea Level Rise | |
| Possible Bridge Access Problem | 7ft Sea Level Rise | |

0 0.125 0.25 0.5 Miles

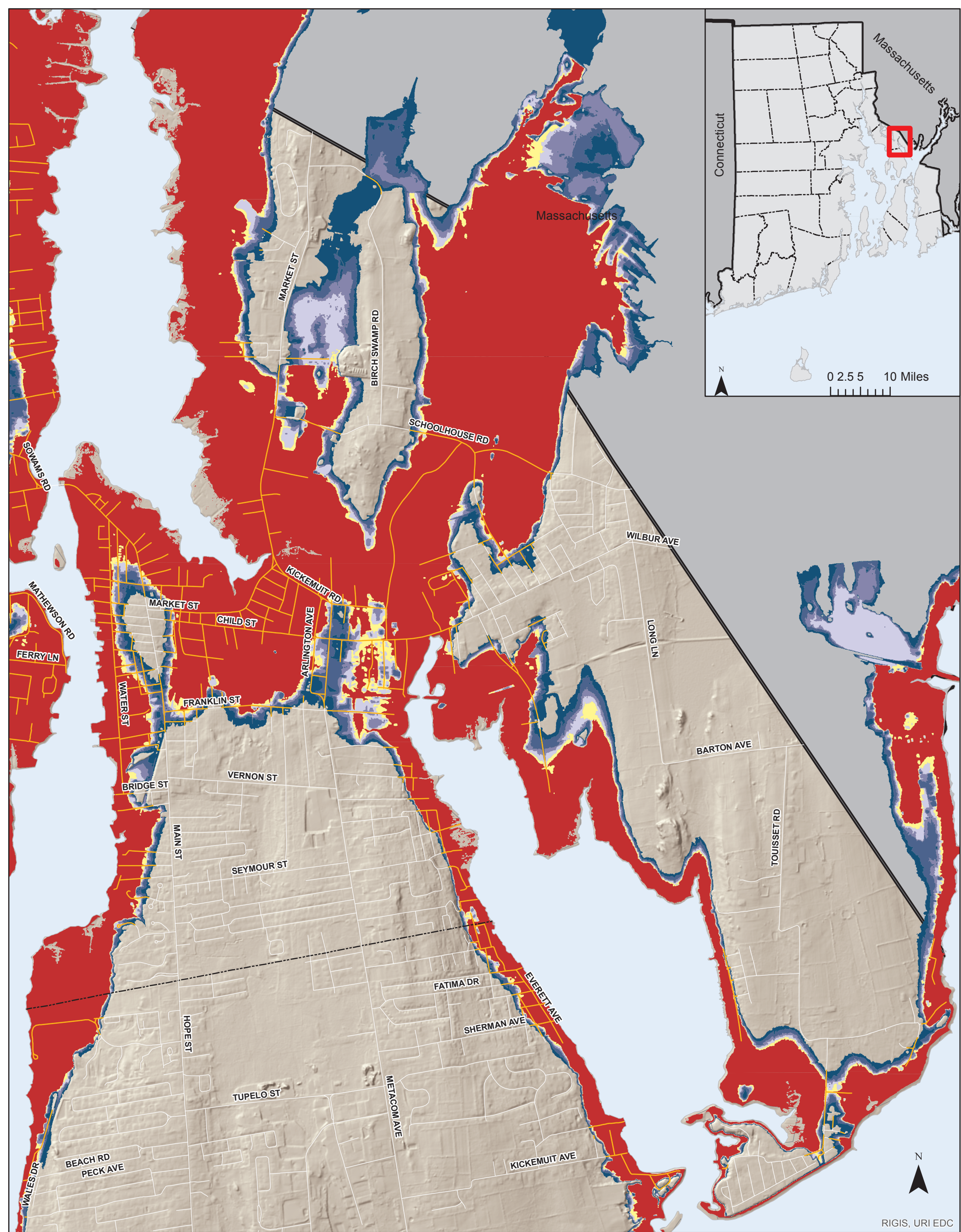


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Bridges Possibly Affected by Sea Level Rise in the Town of Warren

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Hazard Score	Intermodal Facility	Evacuation Route	AADT	System Score	Vulnerability Score
1	13	Belchers Cove Bridge	MARKET ST	BELCHERS COVE	-18	Water	Problem	4.50	No	Yes	10,000	3.10	7.60
2	20	Kickamuit	RI 103 CHILD ST	KICKAMUIT R	0	Water	Problem	4.10	No	Yes	7,800	3.10	7.20



100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Roads

Town of Warren











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Includes Hillshade from USGS 2011 LiDAR

- | | |
|--|--|
|  Current Ponds & Mean Higher High Water |  City and Town Boundaries |
|  100-Year Storm Event |  Potentially Affected Roads |
|  100-Year Plus 1 ft. of SLR |  Roads |
|  100-Year Plus 2 ft. of SLR | |
|  100-Year Plus 3 ft. of SLR | |
|  100-Year Plus 5 ft. of SLR | |
|  100-Year Plus 7 ft. of SLR | |

0 0.125 0.25 0.5 Miles



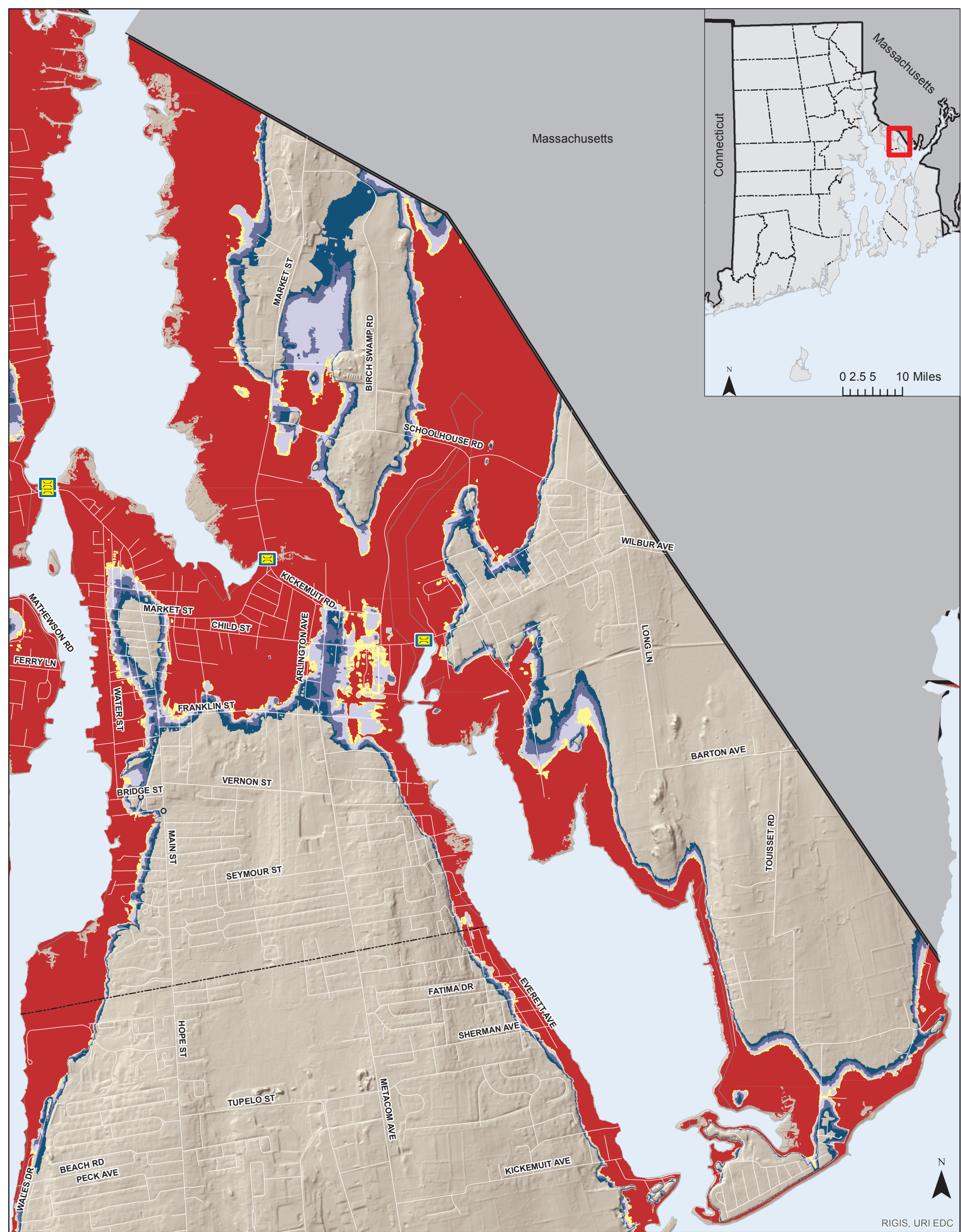
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Relative Road Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise														
Warren			Linear Feet Inundated During 100 Year Surge Event Plus:											
Muni. Rank	State Rank	NAME	No SLR	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Haz. Score	Evac. Route	Intermodal Facility	Functional Classification	Sys. Score	Vulnerability Score
1	9	MAIN ST	2,363	120	447	535	517	3,982	4.18	Yes	Yes	Principal Art.	4.40	8.58
2	36	MARKET ST	5,669	218	419	191	158	6,655	4.70	Yes	No	Minor Art.	3.05	7.75
3	70	CHILD ST	4,196	551	420	571	122	5,860	4.63	No	No	Principal Art.	2.52	7.15
4	98	KICKEMUIT RD	2,225	178	545			2,948	4.68	Yes	No	Major Coll.	2.05	6.73
5	149	METACOM AVE	795	59	760	1,152	152	2,917	3.75	Yes	No	Minor Art.	2.54	6.29
6	213	ARLINGTON AVE	1,242	233	181	461	407	2,525	3.67	No	No	Minor Art.	2.17	5.85
7	241	FRANKLIN ST	378	506	628	384	313	2,209	3.47	No	Yes	Major Coll.	2.20	5.67
8	255	SERPENTINE RD	4,229	200				4,429	5.00	No	No	Local	0.60	5.60
9	260	BRADY ST	744	215				959	5.00	No	No	Local	0.60	5.60
10	261	RIVERVIEW ST	348	145				493	5.00	No	No	Local	0.60	5.60
11	761	ADAMS ST	211					211	5.00	No	No	Local	0.60	5.60
12	762	ASSELIN ST	595					595	5.00	No	No	Local	0.60	5.60
13	763	BARKER AVE	1,134					1,134	5.00	No	No	Local	0.60	5.60
14	764	BAY ST	282					282	5.00	No	No	Local	0.60	5.60
15	765	BENEFIT ST	596					596	5.00	No	No	Local	0.60	5.60
16	766	BLACKTHORNE LN	354	151				505	5.00	No	No	Local	0.60	5.60
17	767	BOWEN ST	209					209	5.00	No	No	Local	0.60	5.60
18	768	BRIDGE	151					151	5.00	No	No	Local	0.60	5.60
19	769	BROWN ST	316					316	5.00	No	No	Local	0.60	5.60
20	770	CENTRAL ST	481					481	5.00	No	No	Local	0.60	5.60
21	771	CHESTNUT ST	356					356	5.00	No	No	Local	0.60	5.60
22	772	CLARK RD	153					153	5.00	No	No	Local	0.60	5.60
23	773	COLE ST	644					644	5.00	No	No	Local	0.60	5.60
24	774	COMPANY ST	508					508	5.00	No	No	Local	0.60	5.60
25	775	CONNOLLY AVE	411					411	5.00	No	No	Local	0.60	5.60
26	776	CRESCENT ST	485					485	5.00	No	No	Local	0.60	5.60
27	777	DAPONTE DR	242					242	5.00	No	No	Local	0.60	5.60
28	778	DAVIS ST	349					349	5.00	No	No	Local	0.60	5.60
29	779	ELLIS AVE	501					501	5.00	No	No	Local	0.60	5.60
30	780	EVERETT ST	1,004					1,004	5.00	No	No	Local	0.60	5.60
31	781	FEDERAL ST	496					496	5.00	No	No	Local	0.60	5.60
32	782	HALL AVE	308					308	5.00	No	No	Local	0.60	5.60
33	783	HANDY ST	251					251	5.00	No	No	Local	0.60	5.60
34	784	JOHN ST	237					237	5.00	No	No	Local	0.60	5.60
35	785	JOHNSON ST	314					314	5.00	No	No	Local	0.60	5.60
36	786	KELLY ST	403					403	5.00	No	No	Local	0.60	5.60
37	787	KICKEMUIT KLOSE	637	245				882	5.00	No	No	Local	0.60	5.60
38	788	LONGWHARF DR	630					630	5.00	No	No	Local	0.60	5.60
39	789	MARTIN ST	374					374	5.00	No	No	Local	0.60	5.60
40	790	MASON ST	875					875	5.00	No	No	Local	0.60	5.60
41	791	MEADOW ST	328					328	5.00	No	No	Local	0.60	5.60
42	792	MILL ST	200					200	5.00	No	No	Local	0.60	5.60
43	793	MULBERRY ST	348					348	5.00	No	No	Local	0.60	5.60
44	794	NOBERT ST	598					598	5.00	No	No	Local	0.60	5.60
45	795	PAIVA ST	111	159				270	5.00	No	No	Local	0.60	5.60
46	796	PALMER AVE	481					481	5.00	No	No	Local	0.60	5.60
47	797	PARK ST	345					345	5.00	No	No	Local	0.60	5.60
48	798	PARKER ST	197					197	5.00	No	No	Local	0.60	5.60
49	799	PENNSYLVANIA AVE	873					873	5.00	No	No	Local	0.60	5.60
50	800	REDMOND ST	363					363	5.00	No	No	Local	0.60	5.60
51	801	ROSELAND AVE	239					239	5.00	No	No	Local	0.60	5.60
52	802	SAINT THERESA DR	397					397	5.00	No	No	Local	0.60	5.60
53	803	SEAVIEW AVE	992					992	5.00	No	No	Local	0.60	5.60
54	804	SHIPYARD LN	360					360	5.00	No	No	Local	0.60	5.60
55	805	SISSON ST	198					198	5.00	No	No	Local	0.60	5.60
56	806	SOUTH GROVE AVE	360					360	5.00	No	No	Local	0.60	5.60
57	807	SUMMER ST	201					201	5.00	No	No	Local	0.60	5.60
58	808	THOMPSON ST	231					231	5.00	No	No	Local	0.60	5.60
59	809	TURNER ST	190					190	5.00	No	No	Local	0.60	5.60
60	810	WARD ST	417					417	5.00	No	No	Local	0.60	5.60
61	811	WATER ST	5,334					5,334	5.00	No	No	Minor Coll.	0.60	5.60
62	812	WATERVIEW	850					850	5.00	No	No	Local	0.60	5.60
63	813	WESTMINSTER ST	257					257	5.00	No	No	Local	0.60	5.60
64	814	WILLIAM ST	686					686	5.00	No	No	Local	0.60	5.60
65	1,049	SCHOOLHOUSE RD	2,810	269	386	330	274	4,069	4.34	No	No	Major Coll.	1.20	5.54
66	1,069	RAILROAD AVE	451	158	14			624	4.92	No	No	Local	0.60	5.52
67	1,075	HOPE ST	548	34				582	4.91	No	No	Local	0.60	5.51
68	1,107	MATTHEW CT	214	24				238	4.85	No	No	Local	0.60	5.45
69	1,131	MIDDLE ST	424	118	32			574	4.81	No	No	Local	0.60	5.41
70	1,148	BAY RD	616	7	10	14	14	659	4.77	No	No	Local	0.60	5.37
71	1,168	WOOD ST	1,363	58	93			1,514	4.73	No	No	Local	0.60	5.33

Muni. Rank	State Rank	NAME	No SLR	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Haz. Score	Evac. Route	Intermodal Facility	Functional Classification	Sys. Score	Vulnerability Score
72	1,249	READ AVE	718	27	85			830	4.59	No	No	Local	0.60	5.19
73	1,259	MAPLE RD	578	15	23	23	20	659	4.57	No	No	Local	0.60	5.17
74	1,270	HARRIS AVE	475	13	20	17	17	543	4.56	No	No	Local	0.60	5.16
75	1,275	KATHLEEN DR	1,304	40	61	75	40	1,520	4.56	No	No	Local	0.60	5.16
76	1,278	PAWTUCKET AVE	160	68				228	4.55	No	No	Local	0.60	5.15
77	1,298	HARDING AVE	487	10	24	20	24	565	4.52	No	No	Local	0.60	5.12
78	1,302	JOYCE ST	516	36	59	46	46	704	4.17	No	No	Local	0.94	5.11
79	1,314	LINCOLN AVE	332	10	16	16	16	391	4.47	No	No	Local	0.60	5.07
80	1,320	SHORE DR	1,129	254	272	165		1,821	4.46	No	No	Local	0.60	5.06
81	1,377	PATTERSON AVE	334	13	23	20	20	409	4.35	No	No	Local	0.60	4.95
82	1,379	LAUREL LN	326	10	20	20	23	400	4.35	No	No	Local	0.60	4.95
83	1,382	LOCUST TER	731	33	46	53	59	922	4.35	No	No	Local	0.60	4.95
84	1,384	MUNRO AVE	331	13	27	17	20	407	4.34	No	No	Local	0.60	4.94
85	1,405	NAPOLEON ST	375	23	30	56		484	4.31	No	No	Local	0.60	4.91
86	1,409	UNION ST	593	194	682			1,468	4.30	No	No	Local	0.60	4.90
87	1,450	WEST ST	39	470	430			939	4.25	No	No	Local	0.60	4.85
88	1,468	CUTLER ST	1,005	80	79	95	89	1,349	4.23	No	No	Local	0.60	4.83
89	1,473	MATTHEW DR	619	31	50	62	57	819	4.22	No	No	Local	0.60	4.82
90	1,491	KINNICUTT AVE	1,362	171	195	158	183	2,069	4.19	No	No	Local	0.60	4.79
91	1,511	CROADE ST	760		105	73	63	1,001	4.16	No	No	Local	0.60	4.76
92	1,536	BRADFORD RD	508	20	62	53	49	692	4.13	No	No	Local	0.60	4.73
93	1,575	CAMPBELL ST	640	33	63	67	92	895	4.08	No	No	Local	0.60	4.68
94	1,585	HUGH COLE RD	736	37	68	77	120	1,038	4.05	No	No	Local	0.60	4.65
95	1,598	TOUISSET RD	70	422	372	342	657	1,863	2.70	Yes	No	Major Coll.	1.93	4.64
96	1,636	LYNDON ST	511	100	283	150	47	1,090	3.98	No	No	Local	0.60	4.58
97	1,646	TADDY AVE	409	56	49	43	72	629	3.95	No	No	Local	0.60	4.55
98	1,679	MAPLE ST	478	26	89	69	59	721	3.89	No	No	Local	0.60	4.49
99	1,699	PARKER AVE	257	13	33	36	39	378	3.87	No	No	Local	0.60	4.47
100	1,710	SCHOOL ST	230	70	102			402	3.85	No	No	Local	0.60	4.45
101	1,712	BEACH ST	344	117	86	63	76	686	3.85	No	No	Local	0.60	4.45
102	1,732	CHURCH ST	351	30	63	59	53	556	3.82	No	No	Local	0.60	4.42
103	1,743	BAKER ST	337	30	56	53	62	538	3.80	No	No	Local	0.60	4.40
104	1,747	WHEATON ST	550	36	76	100	107	869	3.80	No	No	Local	0.60	4.40
105	1,753	DENVER AVE	646	40	98	95	144	1,022	3.79	No	No	Local	0.60	4.39
106	1,855	SACHEM ST	205	17	33	53	46	354	3.62	No	No	Local	0.60	4.22
107	1,883	WARREN AVE	447	98	148	153		846	3.58	No	No	Local	0.60	4.18
108	1,907	MILLER ST	350	66	89	89	72	666	3.54	No	No	Local	0.60	4.14
109	1,911	ASYLUM RD	1,139	130	337	399	521	2,526	3.52	No	No	Local	0.60	4.12
110	1,977	OYSTER POINT DR	280	69	103	63	53	568	3.47	No	No	Local	0.60	4.07
111	1,980	LIBBY LN	243	95	753	115	89	1,295	3.47	No	No	Local	0.60	4.07
112	1,996	HAILE ST	459	69	73	93	204	897	3.44	No	No	Local	0.60	4.04
113	2,051	NORTH CORNELL AVE	89	36	82			207	3.35	No	No	Local	0.60	3.95
114	2,120	BARNEY ST	162	33	58	67	46	366	3.23	No	No	Local	0.60	3.83
115	2,126	SUNSET CT	145	20	43	47	63	318	3.22	No	No	Local	0.60	3.82
116	2,143	BROAD ST	324	88	109	130	124	775	3.19	No	No	Local	0.60	3.79
117	2,173	BRIDGE ST	76	20	36	30	26	188	3.12	No	No	Minor Coll.	0.60	3.72
118	2,248	LUTHER ST	148	37	72	151		408	2.95	No	No	Local	0.60	3.55
119	2,251	JOES RD			592	128	102	822	2.94	No	No	Local	0.60	3.54
120	2,310	SANDERS ST		7	181			188	2.77	No	No	Local	0.60	3.37
121	2,312	LIBERTY ST	110	50	227	256		643	2.77	No	No	Local	0.60	3.37
122	2,318	GREENE ST	97	30	56	76	63	321	2.74	No	No	Local	0.60	3.34
123	2,375	WASHINGTON ST	129	39	99	95	103	465	2.64	No	No	Local	0.60	3.24
124	2,377	ADAMS LN	84	16	59	62	66	287	2.64	No	No	Local	0.60	3.24
125	2,418	STATE ST	84	40	72	82	89	367	2.52	No	No	Local	0.60	3.12
126	2,457	BAGGY WRINKLE COVE			265	110	96	471	2.43	No	No	Local	0.60	3.03
127	2,464	BUFFALO AVE			393	243	220	856	2.42	No	No	Local	0.60	3.02
128	2,470	MONAST ST			160	117		277	2.41	No	No	Local	0.60	3.01
129	2,500	STONEGATE RD	104	52	79	176	180	590	2.29	No	No	Local	0.60	2.89
130	2,532	SHELL RD		97	27	45	110	279	2.19	No	No	Local	0.60	2.79
131	2,536	KING ST	34	66	69	56	69	294	2.18	No	No	Local	0.60	2.78
132	2,556	MANNING ST	77	95	154	281	136	742	2.12	No	No	Local	0.60	2.72
133	2,578	BIRCH SWAMP RD					455	455	1.50	No	No	Major Coll.	1.20	2.70
134	2,616	CHACE AVE	14	7	13	10	10	55	2.02	No	No	Local	0.60	2.62
135	2,658	SOUTH GROVE ST	25	30	62	53	75	245	1.94	No	No	Local	0.60	2.54
136	2,726	NORTH ST	19	14	33	53	100	220	1.67	No	No	Local	0.60	2.27
137	3,080	ALEXS DR					67	67	1.50	No	No	Local	0.60	2.10
138	3,081	AUBIN AVE				176	317	492	1.50	No	No	Local	0.60	2.10
139	3,082	BALTIMORE AVE					111	111	1.50	No	No	Local	0.60	2.10
140	3,083	BRISTOW ST					33	33	1.50	No	No	Local	0.60	2.10
141	3,084	CALDER DR					80	80	1.50	No	No	Local	0.60	2.10
142	3,085	CHERRY ST				129	402	532	1.50	No	No	Local	0.60	2.10
143	3,086	COMMERCIAL WAY					56	56	1.50	No	No	Local	0.60	2.10
144	3,087	DETROIT AVE				237	271	508	1.50	No	No	Local	0.60	2.10

Muni. Rank	State Rank	NAME	No SLR	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Haz. Score	Evac. Route	Intermodal Facility	Functional Classification	Sys. Score	Vulnerability Score
145	3,088	ELM ST				126	296	423	1.50	No	No	Local	0.60	2.10
146	3,089	EMERY DR					211	211	1.50	No	No	Local	0.60	2.10
147	3,090	GREENLAWN ST				26	102	128	1.50	No	No	Local	0.60	2.10
148	3,091	HALL ST					15	15	1.50	No	No	Local	0.60	2.10
149	3,092	HIGHLAND AVE		10	17	17	13	57	1.50	No	No	Local	0.60	2.10
150	3,093	JEFFERSON ST					50	50	1.50	No	No	Local	0.60	2.10
151	3,094	LEWIN ST				3	223	227	1.50	No	No	Local	0.60	2.10
152	3,095	MASSASOIT AVE			30	66	79	174	1.50	No	No	Local	0.60	2.10
153	3,096	NEW INDUSTRIAL WAY				76	115	191	1.50	No	No	Local	0.60	2.10
154	3,097	OAK ST			24	59	102	185	1.50	No	No	Local	0.60	2.10
155	3,098	ORCHARD AVE			25	26	83	134	1.50	No	No	Local	0.60	2.10
156	3,099	PROSPECT AVE				12	24	35	1.50	No	No	Local	0.60	2.10
157	3,100	RESERVOIR AVE					345	345	1.50	No	No	Local	0.60	2.10
158	3,101	ROSA BLVD				282		282	1.50	No	No	Local	0.60	2.10
159	3,355	COLIN CIR				148	259	406	1.50	No	No	Local	0.60	2.10
160	3,356	COLONIAL DR			80	178	122	380	1.50	No	No	Local	0.60	2.10
161	3,357	DRYSDALE ST				23	95	119	1.50	No	No	Local	0.60	2.10
162	3,358	EDDY ST				69	220	290	1.50	No	No	Local	0.60	2.10
163	3,359	ELIZABETH DR				35	95	130	1.50	No	No	Local	0.60	2.10
164	3,360	HEZEKIAH DR				36	77	113	1.50	No	No	Local	0.60	2.10
165	3,361	PAQUIN ST			82	115	98	295	1.50	No	No	Local	0.60	2.10
166	3,362	PLEASANTVIEW AVE			25	17	20	62	1.50	No	No	Local	0.60	2.10
167	3,363	SOUTH CORNELL AVE			48	102	196	347	1.50	No	No	Local	0.60	2.10
168	3,364	WOODBINE AVE		3	32	33	33	101	1.50	No	No	Local	0.60	2.10
Total Linear Feet			79,762	7,518	12,489	10,952	11,506	122,227						



100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Bridges

Town of Warren

Map Created: 8/12/2016

Map Legend

NOTES:

The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

- | | | |
|---|----------------------------|--------------------------|
| Freeboard Potentially Affected by Surge | 100-Year Storm Event | City and Town Boundaries |
| Freeboard Unlikely to be Affected by Surge | 100-Year Plus 1 ft. of SLR | Roads |
| Bridge in Surge Area Protected by Hurricane Barrier | 100-Year Plus 3 ft. of SLR | |
| Not Exposed to Surge | 100-Year Plus 5 ft. of SLR | |
| access, 0 | 100-Year Plus 7 ft. of SLR | |
| problem, 0 | | |

0 0.125 0.25 0.5 Miles



Map Disclaimer: This map is not the product of a Professional Land Survey. It was created by RI Statewide Planning Program for general reference, informational, planning and guidance use, and is not a legally authoritative source as to location of natural or manmade features. Proper interpretation of this map may require the assistance of appropriate professional services. RI Statewide Planning Program makes no warranty, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

RIGIS, URI EDC

Relative Bridge Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise in the Town of Warren

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Haz. Score	Intermodal Facility	Evac. Route	AADT	Sys. Score	Vuln. Score
1	35	Belchers Cove Bridge	MARKET ST	BELCHERS COVE	-194	Water	Problem	4.50	No	Yes	10,000	2.80	7.30
2	36	Kickamuit	RI 103 CHILD ST	KICKAMUIT R	-172	Water	Problem	4.50	No	Yes	7,800	2.80	7.30