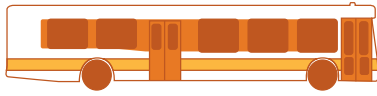


APPENDIX E

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APPENDIX E

GEOGRAPHIC DISTRIBUTION OF TIP FUNDING

OVERVIEW OF CONTENTS

Appendix E provides information about the geographic distribution of federal highway funding in the Boston region between federal fiscal years (FFYs) 2020 and 2024, including the distribution of the Boston Region Metropolitan Planning Organization's (MPO) Regional Target Program funding (the MPO's discretionary funding) and funding for projects and programs prioritized by the Massachusetts Department of Transportation. Funding amounts shown include the state's matching funds that leverage the available federal funds.

Figures E-1 through E-4 show the breakdown of the MPO's Regional Target Program funding and all federal highway funding in the Boston region by subregion and municipality type. The complete dataset showing funding for each individual municipality in the region is provided in Table E-1.

PURPOSE

The analysis presented here provides details about how the MPO has allocated its federal transportation highway dollars across its geographic region by showing which municipalities and areas of the Boston region have received highway funding for the construction of transportation projects. This data was first compiled for FFYs 2008-13 in response to the Boston Region MPO's 2014 Certification Review by the Federal Highway Administration and Federal Transit Administration.

METHODOLOGY

MPO staff took the following steps to develop the dataset:

- Recorded information about TIP projects and the amount of funding programmed in each FFY
- Calculated the amount of programmed funds associated with each municipality for each FFY
- Recorded the total amount of programmed funds for each municipality for each FFY
- Divided programmed funds equally by the number of municipalities located within the project area for projects that spanned multiple municipalities

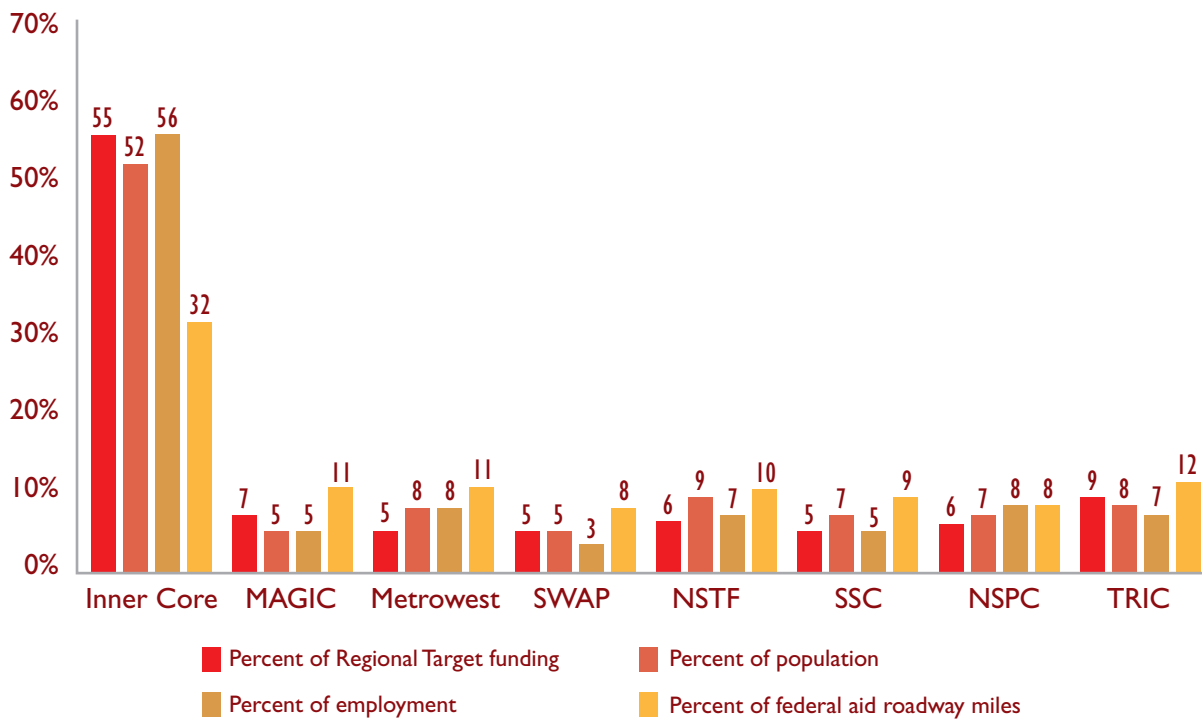
NEXT STEPS

The data summarized in this appendix could be used in various ways to help guide programming decisions for future TIPs. Some analyses that the MPO could perform in the future include

examining TIP funding by municipality and comparing that data to the number of road miles, the Chapter 90 apportionment, and the distribution of needs—as identified in the Needs Assessment of the Long-Range Transportation Plan—for each community.

A database that tracks the geographic distribution of TIP funding can serve as an important input into the funding decisions made each year. Along with the data described above, this data on geographic distribution of highway funding can help guide the MPO’s public outreach and decision-making to help ensure that, over time, the transportation needs of the region are met equitably.

Figure E-1
Regional Distribution of Target Funding by Subregion FFYs 2020–24



Inner Core = Inner Core Committee. MAGIC = Minuteman Advisory Group on Interlocal Coordination. MetroWest = MetroWest Regional Collaborative. NSPC = North Shore Planning Council. NSTF = North Shore Task Force. SSC = South Shore Coalition. SWAP = South West Advisory Planning Committee. TRIC = Three Rivers Interlocal Council.

Figure E-2
Regional Distribution of Target Funding by Municipality Type FFYs 2020–24

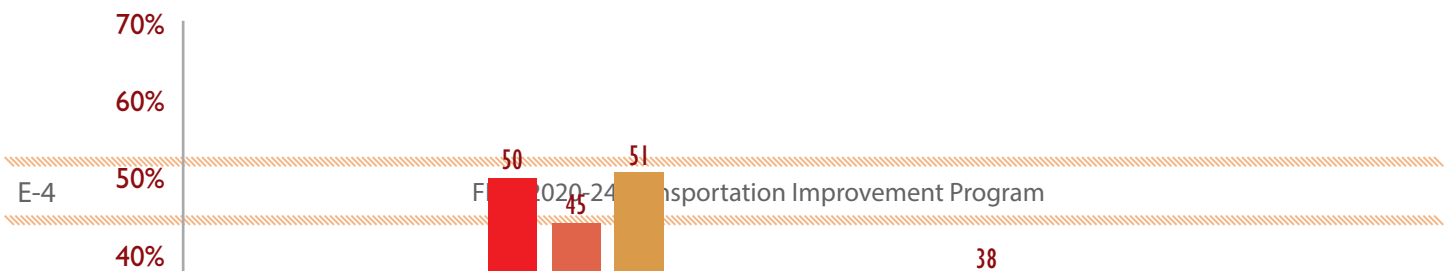
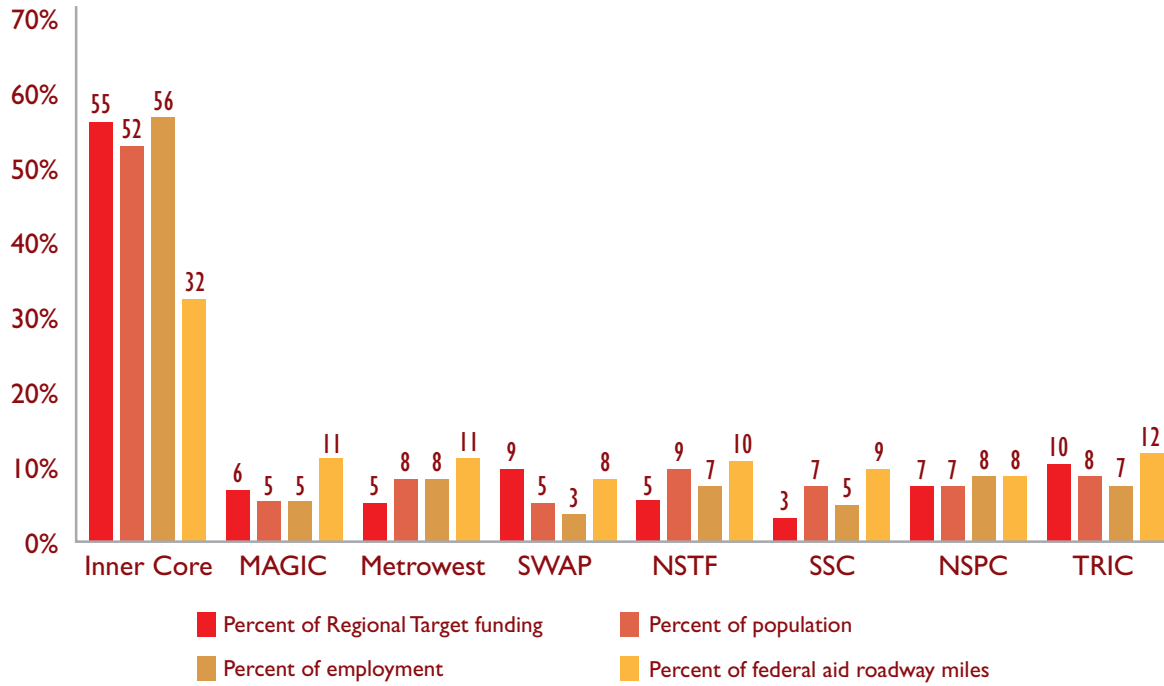
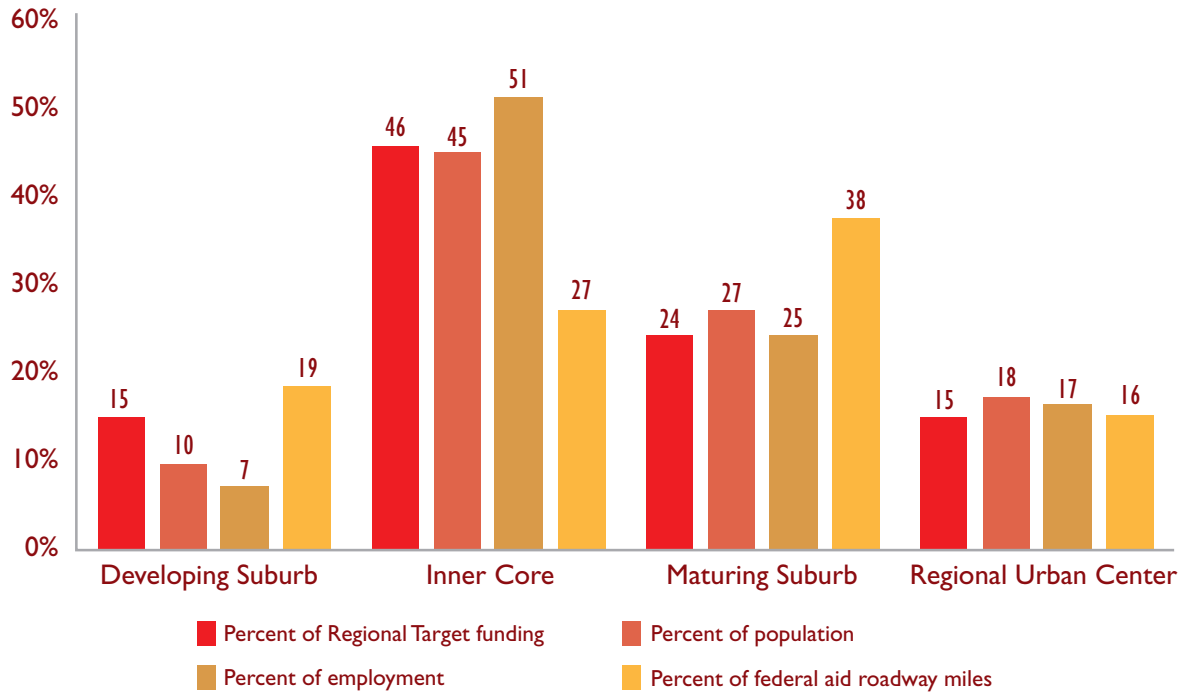


Figure E-3
All Federal Highway Funding in the Boston Region by Subregion FFYs 2020–24



Inner Core = Inner Core Committee. MAGIC = Minuteman Advisory Group on Interlocal Coordination. MetroWest = MetroWest Regional Collaborative. NSPC = North Shore Planning Council. NSTF = North Shore Task Force. SSC = South Shore Coalition. SWAP = South West Advisory Planning Committee. TRIC = Three Rivers Interlocal Council.

Figure E-4
All Federal Highway Funding in the Boston Region by Municipality Type FFYs 2020–24



**Table E-1
Federal Highway Programming for Municipalities in the Boston Region FFYs 2020–24**

Municipality	Subregion	Community Type	Percent of Population	Percent of Employment	Percent Federal-Aid Roadway Miles (2016)	Regionally Prioritized Target Funding	Percent Regionally Prioritized Target Funding	State Prioritized Funding	Percent State Prioritized Funding	Total Funding (Regionally Prioritized and State Prioritized)	Percent Total Funding (Regionally Prioritized and State Prioritized)
Boston	Inner Core	Inner Core	20.0%	31.2%	11.1%	\$142,653,482	27.2%	\$251,653,579	31.7%	\$394,307,061	29.9%
Hopkinton	SWAP	Developing Suburb	0.5%	0.5%	1.0%	\$7,946,749	1.5%	\$87,035,694	10.9%	\$94,982,443	7.2%
Chelsea	Inner Core	Inner Core	1.1%	0.8%	0.6%	\$9,669,765	1.8%	\$69,145,821	8.7%	\$78,815,586	6.0%
Lynn	Inner Core	Regional Urban Center	2.9%	1.3%	1.3%	\$24,644,712	4.7%	\$42,138,964	5.3%	\$66,783,676	5.1%
Wilmington	NSPC	Maturing Suburb	0.7%	1.0%	1.3%	\$16,042,594	3.1%	\$33,082,195	4.2%	\$49,124,789	3.7%
Saugus	Inner Core	Maturing Suburb	0.9%	0.6%	0.8%	\$0	0.0%	\$34,190,354	4.3%	\$34,190,354	2.6%
Milton	TRIC	Maturing Suburb	0.9%	0.3%	1.3%	\$0	0.0%	\$27,554,878	3.5%	\$27,554,878	2.1%
Everett	Inner Core	Inner Core	1.3%	0.7%	0.6%	\$26,768,357	5.1%	\$0	0.0%	\$26,768,357	2.0%
Walpole	TRIC	Developing Suburb	0.8%	0.6%	1.2%	\$19,906,002	3.8%	\$6,329,417	0.8%	\$26,235,419	2.0%
Somerville	Inner Core	Inner Core	2.5%	1.2%	1.2%	\$16,377,067	3.1%	\$8,721,613	1.1%	\$25,098,680	1.9%
Framingham	MetroWest	Regional Urban Center	2.2%	2.5%	2.5%	\$11,347,228	2.2%	\$12,855,700	1.6%	\$24,202,928	1.8%
Peabody	NSTF	Regional Urban Center	1.7%	1.3%	1.4%	\$13,047,647	2.5%	\$11,138,490	1.4%	\$24,186,137	1.8%
Quincy	Inner Core	Regional Urban Center	3.0%	2.6%	2.1%	\$6,292,937	1.2%	\$15,445,156	1.9%	\$21,738,093	1.6%
Acton	MAGIC	Maturing Suburb	0.7%	0.5%	1.1%	\$15,141,463	2.9%	\$5,657,725	0.7%	\$20,799,188	1.6%
Cambridge	Inner Core	Inner Core	3.4%	6.0%	1.8%	\$16,377,067	3.1%	\$3,540,000	0.4%	\$19,917,067	1.5%
Sudbury	MAGIC	Maturing Suburb	0.6%	0.5%	1.0%	\$9,334,137	1.8%	\$9,402,453	1.2%	\$18,736,590	1.4%
Watertown	Inner Core	Inner Core	1.0%	1.1%	0.6%	\$15,120,000	2.9%	\$2,688,000	0.3%	\$17,808,000	1.4%
Norwood	TRIC	Regional Urban Center	0.9%	1.3%	1.0%	\$14,194,571	2.7%	\$3,583,933	0.5%	\$17,778,504	1.3%
Ashland	MetroWest	Maturing Suburb	0.5%	0.3%	0.5%	\$17,453,325	3.3%	\$0	0.0%	\$17,453,325	1.3%
Medford	Inner Core	Inner Core	1.8%	1.0%	1.5%	\$16,377,067	3.1%	\$989,895	0.1%	\$17,366,962	1.3%
Canton	TRIC	Maturing Suburb	0.7%	1.2%	1.1%	\$0	0.0%	\$16,868,965	2.1%	\$16,868,965	1.3%
Woburn	NSPC	Regional Urban Center	1.2%	2.2%	1.5%	\$15,482,660	3.0%	\$0	0.0%	\$15,482,660	1.2%
Newton	Inner Core	Inner Core	2.8%	3.0%	2.6%	\$8,702,969	1.7%	\$5,934,358	0.7%	\$14,637,326	1.1%
Beverly	NSTF	Regional Urban Center	1.3%	1.2%	1.2%	\$12,899,809	2.5%	\$271,952	0.0%	\$13,171,761	1.0%
Wrentham	SWAP	Developing Suburb	0.4%	0.3%	1.0%	\$13,103,505	2.5%	\$0	0.0%	\$13,103,505	1.0%
Natick	MetroWest	Maturing Suburb	1.1%	1.3%	1.2%	\$0	0.0%	\$12,855,700	1.6%	\$12,855,700	1.0%
Stow	MAGIC	Developing Suburb	0.2%	0.1%	0.6%	\$0	0.0%	\$12,542,112	1.6%	\$12,542,112	1.0%
Hingham	SSC	Maturing Suburb	0.7%	0.7%	1.3%	\$8,700,001	1.7%	\$2,819,413	0.4%	\$11,519,414	0.9%
Lynnfield	NSPC	Maturing Suburb	0.4%	0.3%	0.6%	\$0	0.0%	\$11,066,432	1.4%	\$11,066,432	0.8%
Randolph	TRIC	Maturing Suburb	1.0%	0.5%	1.0%	\$0	0.0%	\$10,319,696	1.3%	\$10,319,696	0.8%
Marlborough	MetroWest	Regional Urban Center	1.2%	1.6%	2.0%	\$0	0.0%	\$9,867,120	1.2%	\$9,867,120	0.7%

**Table E-1
Federal Highway Programming for Municipalities in the Boston Region FFYs 2020–24 (cont. 2)**

Municipality	Subregion	Community Type	Percent of Population	Percent of Employment	Percent Federal-Aid Roadway Miles (2016)	Regionally Prioritized Target Funding	Percent Regionally Prioritized Target Funding	State Prioritized Funding	Percent State Prioritized Funding	Total Funding (Regionally Prioritized and State Prioritized)	Percent Total Funding (Regionally Prioritized and State Prioritized)
Braintree	SSC	Maturing Suburb	1.2%	1.5%	1.4%	\$0	0.0%	\$9,552,235	1.2%	\$9,552,235	0.7%
Dedham	TRIC	Maturing Suburb	0.8%	0.9%	1.1%	\$4,368,780	0.8%	\$4,829,746	0.6%	\$9,198,526	0.7%
Needham	TRIC	Maturing Suburb	0.9%	1.0%	1.2%	\$8,702,969	1.7%	\$0	0.0%	\$8,702,969	0.7%
Bedford	MAGIC	Maturing Suburb	0.4%	1.1%	0.8%	\$8,234,946	1.6%	\$0	0.0%	\$8,234,946	0.6%
Cohasset	SSC	Developing Suburb	0.2%	0.1%	0.5%	\$8,074,472	1.5%	\$0	0.0%	\$8,074,472	0.6%
Essex	NSTF	Developing Suburb	0.1%	0.1%	0.2%	\$0	0.0%	\$8,054,272	1.0%	\$8,054,272	0.6%
Hull	SSC	Maturing Suburb	0.3%	0.1%	0.4%	\$7,263,401	1.4%	\$0	0.0%	\$7,263,401	0.6%
Wakefield	NSPC	Maturing Suburb	0.8%	0.8%	0.9%	\$0	0.0%	\$7,040,375	0.9%	\$7,040,375	0.5%
Bellingham	SWAP	Developing Suburb	0.5%	0.3%	0.9%	\$4,380,828	0.8%	\$1,600,800	0.2%	\$5,981,628	0.5%
Sharon	TRIC	Maturing Suburb	0.6%	0.2%	1.1%	\$0	0.0%	\$5,860,487	0.7%	\$5,860,487	0.4%
Winthrop	Inner Core	Inner Core	0.6%	0.1%	0.3%	\$5,644,800	1.1%	\$0	0.0%	\$5,644,800	0.4%
Littleton	MAGIC	Developing Suburb	0.3%	0.3%	1.0%	\$5,380,789	1.0%	\$0	0.0%	\$5,380,789	0.4%
Holbrook	SSC	Maturing Suburb	0.3%	0.1%	0.3%	\$2,743,381	0.5%	\$1,527,250	0.2%	\$4,270,631	0.3%
Middleton	NSTF	Developing Suburb	0.3%	0.3%	0.5%	\$0	0.0%	\$4,073,920	0.5%	\$4,073,920	0.3%
Hamilton	NSTF	Developing Suburb	0.3%	0.1%	0.4%	\$0	0.0%	\$3,698,544	0.5%	\$3,698,544	0.3%
Foxborough	TRIC	Developing Suburb	0.5%	0.7%	1.3%	\$0	0.0%	\$3,641,707	0.5%	\$3,641,707	0.3%
Gloucester	NSTF	Regional Urban Center	0.9%	0.6%	1.0%	\$0	0.0%	\$3,542,912	0.4%	\$3,542,912	0.3%
Manchester	NSTF	Developing Suburb	0.2%	0.1%	0.4%	\$0	0.0%	\$3,542,912	0.4%	\$3,542,912	0.3%
Wenham	NSTF	Developing Suburb	0.2%	0.1%	0.4%	\$0	0.0%	\$3,542,912	0.4%	\$3,542,912	0.3%
Reading	NSPC	Maturing Suburb	0.8%	0.4%	0.8%	\$1,750,419	0.3%	\$1,500,000	0.2%	\$3,250,419	0.2%
Milford	SWAP	Regional Urban Center	0.9%	0.8%	1.2%	\$3,132,000	0.6%	\$0	0.0%	\$3,132,000	0.2%
Ipswich	NSTF	Developing Suburb	0.4%	0.3%	0.7%	\$2,939,052	0.6%	\$0	0.0%	\$2,939,052	0.2%
Weymouth	SSC	Maturing Suburb	1.7%	1.0%	1.5%	\$0	0.0%	\$2,819,413	0.4%	\$2,819,413	0.2%
Weston	MetroWest	Maturing Suburb	0.4%	0.2%	1.3%	\$0	0.0%	\$2,558,929	0.3%	\$2,558,929	0.2%
Hudson	MAGIC	Developing Suburb	0.6%	0.5%	0.7%	\$0	0.0%	\$2,223,333	0.3%	\$2,223,333	0.2%
Malden	Inner Core	Inner Core	1.9%	0.8%	1.0%	\$1,988,532	0.4%	\$0	0.0%	\$1,988,532	0.2%
Brookline	Inner Core	Inner Core	1.9%	0.9%	1.3%	\$0	0.0%	\$1,672,686	0.2%	\$1,672,686	0.1%
Winchester	NSPC	Maturing Suburb	0.7%	0.5%	0.6%	\$0	0.0%	\$1,671,716	0.2%	\$1,671,716	0.1%
Maynard	MAGIC	Maturing Suburb	0.3%	0.2%	0.3%	\$0	0.0%	\$1,646,400	0.2%	\$1,646,400	0.1%
Belmont	Inner Core	Inner Core	0.8%	0.4%	0.6%	\$0	0.0%	\$1,614,288	0.2%	\$1,614,288	0.1%

**Table E-1
Federal Highway Programming for Municipalities in the Boston Region FFYs 2020–24 (cont. 3)**

Municipality	Subregion	Community Type	Percent of Population	Percent of Employment	Percent Federal-Aid Roadway Miles (2016)	Regionally Prioritized Target Funding	Percent Regionally Prioritized Target Funding	State Prioritized Funding	Percent State Prioritized Funding	Total Funding (Regionally Prioritized and State Prioritized)	Percent Total Funding (Regionally Prioritized and State Prioritized)
Franklin	SWAP	Developing Suburb	1.0%	0.8%	1.2%	\$0	0.0%	\$1,600,800	0.2%	\$1,600,800	0.1%
Salem	NSTF	Regional Urban Center	1.3%	1.1%	0.7%	\$0	0.0%	\$1,523,721	0.2%	\$1,523,721	0.1%
Danvers	NSTF	Maturing Suburb	0.9%	1.4%	1.5%	\$0	0.0%	\$1,168,877	0.1%	\$1,168,877	0.1%
Swampscott	NSTF	Maturing Suburb	0.4%	0.2%	0.3%	\$0	0.0%	\$1,157,036	0.1%	\$1,157,036	0.1%
Concord	MAGIC	Maturing Suburb	0.6%	0.7%	1.1%	\$0	0.0%	\$1,087,500	0.1%	\$1,087,500	0.1%
Lexington	MAGIC	Maturing Suburb	1.0%	1.1%	1.9%	\$0	0.0%	\$1,087,500	0.1%	\$1,087,500	0.1%
Lincoln	MAGIC	Maturing Suburb	0.2%	0.1%	0.6%	\$0	0.0%	\$1,087,500	0.1%	\$1,087,500	0.1%
Westwood	TRIC	Maturing Suburb	0.5%	0.5%	0.7%	\$0	0.0%	\$1,071,429	0.1%	\$1,071,429	0.1%
Arlington	Inner Core	Inner Core	1.4%	0.5%	0.8%	\$0	0.0%	\$950,000	0.1%	\$950,000	0.1%
Scituate	SSC	Maturing Suburb	0.6%	0.2%	1.0%	\$897,164	0.2%	\$0	0.0%	\$897,164	0.1%
Marblehead	NSTF	Maturing Suburb	0.6%	0.3%	0.5%	\$786,568	0.2%	\$0	0.0%	\$786,568	0.1%
Dover	SWAP	Developing Suburb	0.2%	0.0%	0.5%	\$0	0.0%	\$271,952	0.0%	\$271,952	0.0%
Bolton	MAGIC	Developing Suburb	0.2%	0.1%	0.7%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Boxborough	MAGIC	Developing Suburb	0.2%	0.2%	0.4%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Burlington	NSPC	Maturing Suburb	0.8%	2.2%	1.3%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Carlisle	MAGIC	Developing Suburb	0.2%	0.0%	0.4%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Holliston	MetroWest	Developing Suburb	0.4%	0.3%	0.5%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Marshfield	SSC	Maturing Suburb	0.8%	0.3%	1.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Medfield	TRIC	Maturing Suburb	0.4%	0.2%	0.5%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Medway	SWAP	Developing Suburb	0.4%	0.2%	0.6%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Melrose	Inner Core	Inner Core	0.9%	0.3%	0.4%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Millis	SWAP	Developing Suburb	0.3%	0.1%	0.4%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Nahant	Inner Core	Maturing Suburb	0.1%	0.0%	0.2%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Norfolk	SWAP	Developing Suburb	0.4%	0.2%	0.5%	\$0	0.0%	\$0	0.0%	\$0	0.0%
North Reading	NSPC	Maturing Suburb	0.5%	0.4%	0.6%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Norwell	SSC	Developing Suburb	0.3%	0.5%	0.8%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Revere	Inner Core	Inner Core	1.7%	0.5%	1.3%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Rockland	SSC	Developing Suburb	0.6%	0.4%	0.6%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Rockport	NSTF	Developing Suburb	0.2%	0.1%	0.2%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Sherborn	SWAP	Developing Suburb	0.1%	0.0%	0.4%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Southborough	MetroWest	Maturing Suburb	0.3%	0.4%	1.2%	\$0	0.0%	\$0	0.0%	\$0	0.0%

**Table E-1
Federal Highway Programming for Municipalities in the Boston Region FFYs 2020–24 (cont. 4)**

Municipality	Subregion	Community Type	Percent of Population	Percent of Employment	Percent Federal-Aid Roadway Miles (2016)	Regionally Prioritized Target Funding	Percent Regionally Prioritized Target Funding	State Prioritized Funding	Percent State Prioritized Funding	Total Funding (Regionally Prioritized and State Prioritized)	Percent Total Funding (Regionally Prioritized and State Prioritized)
Stoneham	NSPC	Maturing Suburb	0.7%	0.4%	0.8%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Topsfield	NSTF	Developing Suburb	0.2%	0.1%	0.6%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Waltham	Inner Core	Inner Core	2.0%	3.0%	1.6%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Wayland	MetroWest	Maturing Suburb	0.4%	0.2%	0.7%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Wellesley	MetroWest	Maturing Suburb	0.9%	0.9%	0.9%	\$0	0.0%	\$0	0.0%	\$0	0.0%

Inner Core = Inner Core Committee, MAGIC = Minuteman Advisory Group on Interlocal Coordination, MetroWest = MetroWest Regional Collaborative, NSPC = North Shore Planning Council, NSTF = North Shore Task Force, SSC = South Shore Coalition, SWAP = South West Advisory Planning Committee, TRIC = Three Rivers Interlocal Council