MONTACHUSETT METROPOLITAN PLANNING ORGANIZATION (MMPO)

MONTACHUSETT REGIONAL PAVEMENT PROFILE 2014

Prepared by the



Prepared by the Montachusett Regional Planning Commission in cooperation with the Massachusetts Department of Transportation and the U.S. Department of Transportation. The views and opinions of the Montachusett Regional Planning Commission expressed herein do not necessarily state or reflect those of the Massachusetts Department of Transportation or the U.S. Department of Transportation.

Contract # 69656

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MONTACHUSETT METROPOLITAN PLANNING ORGANIZATION SIGNATORIES

Massachusetts Department of Transportation (MassDOT) Secretary

MassDOT Highway Division Administrator

Montachusett Regional Planning Commission (MRPC) Chairman

Montachusett Regional Transit Authority (MART) Chairman

Mayor City of Leominster Mayor City of Gardner

Athol Board of Selectmen Subregion 1 Townsend Board of Selectmen Subregion 2 Lunenburg Board of Selectmen Subregion 3 Lancaster Board of Selectmen Subregion 4 Richard A. Davey Frank DePaola Victor Koivumaki Mayor Lisa Wong Mayor Dean Mazzarella Mayor Mark Hawke Stephen R. Raymond Robert Plamondon Paula Bertram

Jennifer Leone

MPO SUB-SIGNATORY COMMITTEE MEMBERS

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Arthur Frost, Project Development Engineer for Administrator Frank DePaola

Glenn Eaton, Executive Director, MRPC, for Chairman Koivumaki Mohammed H. Khan, Administrator, MART, for Chairman Mayor Wong

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Mary Beth Mello, Region I Administrator Federal Transit Administration

MONTACHUSETT REGIONAL PLANNING COMMISSION (MRPC) OFFICERS

Victor Koivumaki, Chairman
Paula Caron, Vice Chairman
Fitchburg
Christopher Jones, Secretary
James W. Meehan, Treasurer
Alan Pease, Asst. Treasurer
Ashby

MONTACHUSETT JOINT TRANSPORTATION COMMITTEE (MJTC) OFFICERS

David Manugian, Chairman
Paula Caron, Vice Chairman
Jon Wyman, Secretary
Groton
Fitchburg
Westminster

MONTACHUSETT REGIONAL PLANNING COMMISSION STAFF

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Brad Harris, Transportation Project Director George Kahale, Transit Project Director

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MONTACHUSETT JOINT TRANSPORTATION COMMITTEE

APPOINTED BY

COMMUNITY SELECTMEN/MAYOR APPOINTED BY PLANNING BOARD

Ashburnham Greg Fagan

Ashby Mary Krapf Alan Pease

Athol Doug Walsh

Ayer Pauline Hamel Peter Johnston

Clinton

Fitchburg Paula Caron

Gardner

Groton Anna Eliot David Manugian

Harvard Lucy Wallace

Hubbardston Lyn Gauthier James Crystoff Lancaster Noreen Piazza

Leominster David DiGiovanni

Lunenburg Robert Saiia

Petersham

Phillipston Ron Recos Royalston John Morse

Shirley Robert Thurston Sterling Charles Hadju

Templeton Bud Chase

Townsend

Westminster Jon Wyman Winchendon Jim Kreidler Fedor Berndt

EXOFFICIO MEMBERS

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Massachusetts Department of Transportation (MassDOT)
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Massachusetts Department of Transportation (MassDOT)
Federal Highway Administration (FHWA), Administrator
Federal Transit Administration (FTA), Region I Administrator

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ORGANIZATION MEMBERS

Al Futterman Nashua River Watershed Association (NRWA)
Tony Salerno Amalgamated Transit Union #690 (ATU 690)

Kit Walker Fitchburg Airport Commission

North Central MA Chamber of Commerce

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Fitchburg Council on Aging

Mass Development

Peter Lowitt Devens Enterprise Commission (DEC)

I. INTRODUCTION

The *Pavement Management Program* at the Montachusett Regional Planning Commission (MRPC) consists of surveying all federal aid eligible roadways in the region for the purpose of collecting, maintaining and evaluating pavement condition data for use in transportation plan and project decision making.

There are approximately 644 miles of federal aid eligible roads in the Montachusett region, of which 84 miles are National Highway System (NHS) roads, and 560 miles are Surface Transportation Program (STP) roads. NHS roadways represent all Interstate roadways such as I-190, and I-495 along with a systematic network of principal arterials such as Route 2 and parts of Routes 12, 140 and 2A; NHS roads are regularly surveyed by the Massachusetts Department of Transportation (MassDOT). STP roadways, which include all other numbered routes as well as all urban arterials, urban collectors and rural arterials, will be surveyed mostly by the MRPC, MassHighway also regularly collects data on all numbered routes. A full list of all STP and NHS roads in the region is provided in the Appendix of this report.

The maps in Appendix B show all federal aid eligible miles in the Montachusett region. All roads shown on these maps will be surveyed as part of the Montachusett Regional Pavement Management System.

II. PAVEMENT MANAGEMENT AT MRPC

The principal intention of having a pavement management program at MRPC is for the purpose of including the data in our transportation evaluation criteria (TEC). TEC is a data driven process that is used when putting together documents such as the Transportation Improvement Program (TIP), an annual prioritized listing of transportation and transit projects proposed for implementation during future federal fiscal years for the region. In the Montachusett region the pavement management program will help, along with other programs and data, to develop a more accurate prioritization of transportation needs, and to balance those needs with available funding.

Pavement management systems (PMS) can be viewed at both network and project levels. In a network level PMS an entire network is analyzed to determine which maintenance tasks should be funded. In a project level PMS individual projects are studied to determine to what extent the roadway needs attention. The MRPC's approach will reflect some aspects of each of these levels. Pavement data from the entire federal aid network in the Montachusett region will be maintained; this data will be gathered along with other evaluation criteria and considered when looking at project level programs such as the TIP. Although both levels will be involved and the same data will be collected and analyzed, the MRPC's use of a PMS may differ from a typical municipality's because it will take more of a project level approach as opposed to a municipality's network level approach. While a city or town Department of Public Works plays the role of a road manager, the MRPCs desire is to better understand the transportation system of the region and its needs.

III. ROADWAY SYSTEM

Of the approximately 2,085 miles of roads in the Montachusett region, approximately 560 miles are Surface Transportation Program (STP) eligible roadways and 83 miles are National Highway System (NHS) eligible roadways. This represents 31% of the regions road miles. The remaining 1,441 miles (69%) are state and local aid eligible roads.

They are defined as follows:

<u>National Highway System (NHS)</u> – all interstate roadways and a systematic network of principal arterials spanning the state. In addition, roads connecting the NHS roadways to military bases (known as the Strategic Highway Network) are also considered part of the NHS network. NHS passenger and freight terminals are connected by roadways called NHS connectors.

<u>Surface Transportation Program (STP)</u> – comprised of any functionally classified roadway not part of the NHS network. STP funded roadways include all urban arterials, urban collectors and rural arterials. According to previous funding legislation, rural collectors are STP eligible, but have a limitation on the STP funding amount.

<u>State and Local Aid</u> – includes Chapter 90 and other non-Federal Aid categories. Roadways that fall under this category are comprised of roads functionally classified as local roads.

As stated above, rural collectors are STP eligible but have a funding limitation. The following table provides a breakdown of roads by community by their aid eligibility, NHS, STP or State Aid/Local. The State Aid/Local figures include those rural collector miles that may also be STP eligible

Table 1 – Regional Road Mileage

	J		Total Fed	State & Local Aid	
Community	NHS Miles	STP Miles	Aid Miles	Miles	Total Miles
Ashburnham	0.00	18.15	18.15	79.69	97.84
Ashby	0.00	11.63	11.63	53.09	64.72
Athol	5.11	27.27	32.38	78.92	111.30
Ayer	2.93	13.79	16.72	32.34	49.06
Clinton	0.00	17.60	17.60	34.03	51.63
Fitchburg	10.80	54.60	65.40	134.51	199.91
Gardner	9.00	32.62	41.62	73.30	114.92
Groton	0.00	33.81	33.81	77.18	110.99
Harvard	8.82	7.94	16.76	60.59	77.35
Hubbardston	0.00	21.52	21.52	63.13	84.65
Lancaster	6.17	24.61	30.78	38.96	69.74
Leominster	7.41	54.16	61.57	115.43	177.00
Lunenburg	0.00	33.38	33.38	61.89	95.27
Petersham	0.00	19.52	19.52	59.53	79.05
Phillipston	2.97	8.42	11.39	40.60	51.99
Royalston	0.00	20.90	20.90	51.22	72.12
Shirley	0.00	19.89	19.89	28.94	48.83
Sterling	6.65	34.16	40.81	66.00	106.81
Templeton	5.66	34.85	40.51	61.07	101.58
Townsend	0.00	23.44	23.44	72.08	95.52
Westminster	8.60	29.24	37.84	71.51	109.35
Winchendon	9.31	18.90	28.21	86.90	115.11
Totals	83.43	560.40	643.83	1,440.91	2,084.74
Percent of Total	4.00%	26.88%		69.12%	

IV. REGIONAL PAVEMENT CONDITIONS

The structural conditions of the majority of the Federal Aid eligible roads are determined by MassDOT and MRPC pavement surveys. The condition is expressed by assigning either a Pavement Serviceability Index (PSI) number from 0 to 5 or a Pavement Condition Index number from 0 – 100(PCI) to segments along the roadway. PSI (MassDOT method) and PCI (MRPC method) is an overall rating of the pavements condition. Conditions are rated as Excellent, Good, Fair and Poor. The following table shows a general correlation between PSI and PCI, condition, repair strategies and associated cost. This average cost has been determined from consultation with MassDOT and other Regional Planning Agencies throughout the State.

Table 2 – Pavement Condition – Cost Breakdown

PSI	PCI	Condition	Associated Repair	Repair Cost Per. Sq. Yard
0 - 2.29	0 - 64	Poor	Reconstruction	\$45
2.3 - 2.79	65 - 84	Fair	Rehabilitation (Mill/Overlay)	\$18
2.8 - 3.49	85 - 94	Good	Preventative Maintenance	\$8.50
3.5 - 5	95 - 100	Excellent	Routine Maintenance	\$0.75

Utilizing this information a general condition of the Montachusett Region's Federal Aid eligible roadway network can be developed. The following lists pavement condition on federal aid eligible roads by town in the region. These federal aid miles are further broken down by Local and State Jurisdiction. Please note that due to the time frame between data collection and report preparation, conditions of the roadways may change. Additionally, mileage listed in the following charts may not reflect mileage listed on the "Total Fed-Aid Miles" of Table 1 as a small percentage of roads not eligible for federal aid are included. Therefore, this information should be viewed in general terms regarding needs and condition.

_		S	tate Juristic	tion	L	ocal Jurisdio	ction		Combin	ed	
am		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
umh	Excellent	0.34	4776	\$3,582	2.55	35835	\$26,876	Routine Maintenance	2.88	40611	\$30,458
5	Good	0.66	9289	\$78,957	2.68	36109	\$306,927	Preventative Maintenance	3.34	45397	\$385,875
shb	Fair	1.52	21461	\$386,298	1.27	17720	\$327,820	Rehabilitation	2.79	39181	\$724,849
AS	Poor	2.92	3	\$135	1.52	20045	\$902,025	Reconstruction	4.44	20047	\$902,115
1	Total	5.44		\$468,972	8.02		\$1,563,648	Total	13.46		\$2,043,296
		s	tate Juristic	tion	L	ocal Jurisdi	ction	Combined			
		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
b	Excellent	0.54	7486	\$5,614	0.00	0	\$0	Routine Maintenance	0.54	7486	\$5,614
Sh	Good	2.28	31756	\$269,927	0.00	0	\$0	Preventative Maintenance	2.28	31756	\$269,927
₹	Fair	6.21	85468	\$1,538,419	0.00	0	\$0	Rehabilitation	6.21	85468	\$1,581,153
	Poor	2.63	39577	\$1,780,960	0.00	0	\$0	Reconstruction	2.63	39577	\$1,780,960
	Total	11.67		\$3,594,920	0.00		\$0	Total	11.67		\$3,637,654
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
0	Excellent	4.39	44358	\$33,269	2.89	38639	\$28,979	Routine Maintenance	7.28	82998	\$62,248
Ath	Good	0.74	9655	\$82,065	6.79	102502	\$871,268	Preventative Maintenance	7.53	112157	\$953,332
⋖	Fair	5.27	74224	\$1,336,034	1.84	29063	\$537,659	Rehabilitation	7.11	103287	\$1,910,805
	Poor	1.92	27584	\$1,241,270	8.34	119939	\$5,397,269	Reconstruction	10.26	147523	\$6,638,539
	Total	12.32		\$2,692,638	19.85		\$6,835,175	Total	32.17		\$9,564,925

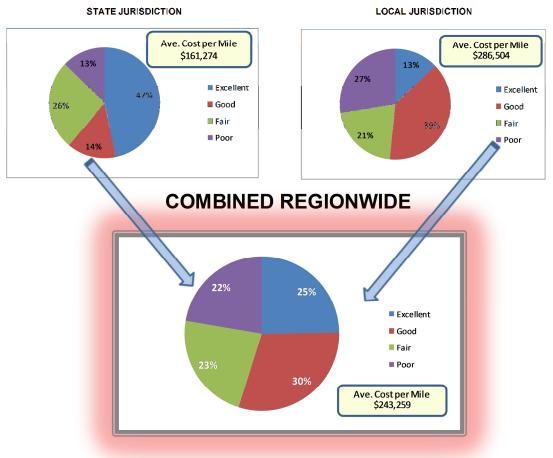
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
5	Excellent	1.70	23926	\$17,944	2.34	37398	\$28,048	Routine Maintenance	4.04	61323	\$45,993
Ayer	Good	0.36	5327	\$45,281	3.84	66826	\$568,024	Preventative Maintenance	4.21	72154	\$613,305
_	Fair	0.32	4263	\$76,742	1.61	26258	\$485,782	Rehabilitation	1.93	30522	\$564,656
	Poor	1.61	24085	\$1,083,841	0.74	11482	\$516,706	Reconstruction	2.35	35568	\$1,600,548
	Total	4.00		\$1,223,808	8.53		\$1,598,561	Total	12.53		\$2,824,501
			tate Juristic			ocal Jurisdi			Combin		
_		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
Clinton	Excellent	0.00	0	\$0	0.51	8402	\$6,301	Routine Maintenance	0.51	8402	\$6,301
Ë	Good Fair	0.47	6518 9421	\$55,406 \$169.577	6.94 3.84	117100 58333	\$995,352 \$1,079,169	Preventative Maintenance Rehabilitation	7.41 4.51	123619 67754	\$1,050,758 \$1,253,456
O	Poor	0.38	5374	\$241.845	4.53	69625	\$3,133,136	Reconstruction	4.91	75000	\$3,374,981
	Total	1.52	3074	\$466,828	15.83	03023	\$5,213,958	Total	17.34	73000	\$5,685,496
	.ou.	-	tate Juristic	. ,		ocal Jurisdi		- Ottai	Combin	od	40,000,100
0		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
Fitchburg	Excellent	8.45	122699	\$92,024	7.34	138314	\$103,735	Routine Maintenance	15.79	261012	\$195,759
h	Good	1.05	14192	\$120,631	23.06	403968	\$3,433,731	Preventative Maintenance	24.11	418160	\$3,554,363
달	Fair	2.21	31107	\$559,933	7.05	99192	\$1,835,048	Rehabilitation	9.26	130299	\$2,410,535
证	Poor	1.27	18188	\$818,455	20.07	308698	\$13,891,424	Reconstruction	21.34	326886	\$14,709,879
	Total	12.98		\$1,591,044	57.52		\$19,263,939	Total	70.50		\$20,870,537
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
_		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
Gardner	Excellent	12.66	189756	\$142,317	2.89	62965	\$47,224	Routine Maintenance	15.55	252722	\$189,541
D	Good	1.49	21011	\$178,591	14.45	246510	\$2,095,332	Preventative Maintenance	15.94	267520	\$2,273,923
Ğ	Fair	2.20	34740	\$625,313	6.71	123278	\$2,280,635	Rehabilitation	8.91	158017	\$2,923,317
	Poor	0.88	12629	\$568,292	5.15	87453	\$3,935,374	Reconstruction	6.04	100081	\$4,503,666
	Total	17.22		\$1,514,513 ••	29.21		\$8,358,565	Total	46.43		\$9,890,448
			tate Juristic			ocal Jurisdi			Combin		
_	Excellent	Miles 0.54	Square Yards 7606	\$5,705	Miles 3.61	Square Yards 41636	\$31,227	Repair Category Routine Maintenance	Miles 4.15	Square Yards 49242	Total \$36,931
Groton	Good	2.11	29676	\$252.246	9.90	132126	\$1,123,075	Preventative Maintenance	12.01	161802	\$1,375,321
Š	Fair	0.85	11968	\$215,424	7.54	104309	\$1,929,720	Rehabilitation	8.39	116277	\$2,151,128
	Poor	1.92	26979	\$1,214,041	6.34	80217	\$3,609,772	Reconstruction	8.26	107196	\$4,823,813
	Total	5.42		\$1,687,415	27.39	55271	\$6,693,795	Total	32.81	101.100	\$8,387,194
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
~		10.00	215548	\$161,661	1.38	18670	\$14,003	Routine Maintenance	15.24	234218	\$175,663
ard	Excellent	13.86									φ175,005
ırvard	Good	1.51	18065	\$153,554	2.00	27167	\$230,921	Preventative Maintenance	3.51	45232	\$384,475
Harvard	Good Fair	1.51 0.07	18065 894	\$153,554 \$16,100	2.00 2.29	29924	\$553,602	Preventative Maintenance Rehabilitation	2.36	45232 30819	\$384,475 \$570,149
Harvard	Good Fair Poor	1.51 0.07 0.94	18065	\$153,554 \$16,100 \$525,202	2.00 2.29 1.19		\$553,602 \$690,365	Preventative Maintenance Rehabilitation Reconstruction	2.36 2.13	45232	\$384,475 \$570,149 \$1,215,567
Harvard	Good Fair	1.51 0.07 0.94 16.38	18065 894 11671	\$153,554 \$16,100 \$525,202 \$856,517	2.00 2.29 1.19 6.86	29924 15341	\$553,602 \$690,365 \$1,488,891	Preventative Maintenance Rehabilitation	2.36 2.13 23.24	45232 30819 27013	\$384,475 \$570,149
	Good Fair Poor	1.51 0.07 0.94 16.38	18065 894 11671 tate Juristic	\$153,554 \$16,100 \$525,202 \$856,517	2.00 2.29 1.19 6.86	29924 15341 ocal Jurisdi	\$553,602 \$690,365 \$1,488,891	Preventative Maintenance Rehabilitation Reconstruction Total	2.36 2.13 23.24 Combin	45232 30819 27013	\$384,475 \$570,149 \$1,215,567 \$2,345,855
	Good Fair Poor Total	1.51 0.07 0.94 16.38 S	18065 894 11671 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost	2.00 2.29 1.19 6.86 L	29924 15341 ocal Jurisdio Square Yards	\$553,602 \$690,365 \$1,488,891 ction Cost	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category	2.36 2.13 23.24 Combin Miles	45232 30819 27013 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855
	Good Fair Poor Total	1.51 0.07 0.94 16.38 S Miles 0.00	18065 894 11671 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0	2.00 2.29 1.19 6.86 Lower Lower Lowe	29924 15341 ocal Jurisdi Square Yards 38697	\$553,602 \$690,365 \$1,488,891 ction Cost \$29,023	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	2.36 2.13 23.24 Combin Miles 2.75	45232 30819 27013 ed Square Yards 38697	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023
	Good Fair Poor Total	1.51 0.07 0.94 16.38 S	18065 894 11671 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost	2.00 2.29 1.19 6.86 L	29924 15341 ocal Jurisdio Square Yards	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category	2.36 2.13 23.24 Combin Miles	45232 30819 27013 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978
	Good Fair Poor Total Excellent Good	1.51 0.07 0.94 16.38 S Miles 0.00 0.00	18065 894 11671 tate Juristic Square Yards 0 0	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0	2.00 2.29 1.19 6.86 Miles 2.75 10.74	29924 15341 Ocal Jurisdii Square Yards 38697 148468	\$553,602 \$690,365 \$1,488,891 ction Cost \$29,023	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance	2.36 2.13 23.24 Combin Miles 2.75 10.74	45232 30819 27013 ed Square Yards 38697 148468	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023
Hubbardston Harvard	Good Fair Poor Total Excellent Good Fair	1.51 0.07 0.94 16.38 S Miles 0.00 0.00	18065 894 11671 tate Juristic Square Yards 0 0	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0	2.00 2.29 1.19 6.86 Miles 2.75 10.74 5.32	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32	45232 30819 27013 ed Square Yards 38697 148468 68108	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004
	Good Fair Poor Total Excellent Good Fair Poor	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00	18065 894 11671 tate Juristic Square Yards 0 0	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0	2.00 2.29 1.19 6.86 Miles 2.75 10.74 5.32 2.69 21.50	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69	45232 30819 27013 ed Square Yards 38697 148468 68108 31422	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971
	Good Fair Poor Total Excellent Good Fair Poor	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00	18065 894 11671 tate Juristic Square Yards 0 0 0 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0	2.00 2.29 1.19 6.86 Miles 2.75 10.74 5.32 2.69 21.50	29924 15341 ocal Jurisdi Square Yards 38697 148468 68108 31422	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction	2.36 2.13 23.24 Combin- Miles 2.75 10.74 5.32 2.69 21.50	45232 30819 27013 ed Square Yards 38697 148468 68108 31422	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971
ter Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0	2.00 2.29 1.19 6.86 Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392
ter Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94	18065 894 11671 tate Juristic Square Yards 0 0 0 0 0 tate Juristic Square Yards 168164 1881	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225
ter Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Good Fair	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94 0.13	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484
Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Food Fair Food Fair Food	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21	18065 894 11671 tate Juristic Square Yards 0 0 0 0 0 tate Juristic Square Yards 168164 1881	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76 9.22 9.08	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614
ter Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Good Fair	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76 9.22 9.08 3.72 24.77	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265 53429	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484
Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Food Fair Food Fair Food	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76 9.22 9.08 3.72 24.77 L	29924 15341 Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265 53429	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715
Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair For Total Total Total Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04 12.33 S Miles	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22 9.08 3.72 24.77 Li Miles	29924 15341 ocal Jurisdi Square Yards 38697 148468 68108 31422 ocal Jurisdi Square Yards 125439 122265 53429 ocal Jurisdi Square Yards	\$553,602 \$690,365 \$1,488,891 ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 ction Cost	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715
Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Food Fair Food Fair Food	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76 9.22 9.08 3.72 24.77 L	29924 15341 Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265 53429	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715
Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Total Excellent Good Fair Foor Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04 12.33 S Miles 11.87	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$222,514 tion Cost	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22 9.08 3.72 24.77 Li Miles 7.82	29924 15341 Cocal Jurisdi Square Yards 38697 148468 68108 31422 Cocal Jurisdi Square Yards 125439 122265 53429 Cocal Jurisdi Square Yards Square Yards	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 Ction Cost \$98,033	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672
ter Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04 12.33 S Miles 11.87	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$125,639 \$175,913	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22 9.08 3.72 24.77 Li Miles 7.82 12.57	29924 15341 Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265 53429 Ocal Jurisdi Square Yards Square Yards	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 Ction Cost \$98,033 \$1,877,566	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Repair Category Routine Maintenance	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 19.69 13.84	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 205856 205856 205856 205856 205856 205856 205856	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479
Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04 12.33 S Miles 11.87 1.26 4.23	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696 55775	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$126,639 \$175,913 \$1,003,946	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22 9.08 3.72 24.77 Li Miles 7.82 12.57 10.63	29924 15341 Square Yards Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265 53429 Ocal Jurisdi Square Yards 130711 220890 175189	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 Ction Cost \$98,033 \$1,877,566	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Repabilitation Reconstruction Reconstruction	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 19.69 13.84 14.85	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 298229 241586 230964	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479 \$4,272,825
Leominster Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Fair Poor Total Excellent Good Fair Poor Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04 12.33 S Miles 11.87 1.26 4.23 1.97	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696 55775	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 tion Cost \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$125,639 \$175,913 \$175,913 \$1,003,946 \$1,349,848 \$2,655,345	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76 9.22 9.08 3.72 24.77 L Miles 7.82 12.57 10.63 18.98 50.00	29924 15341 Square Yards Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265 53429 Ocal Jurisdi Square Yards 130711 220890 175189	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 Ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Repabilitation Reconstruction Reconstruction	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 19.69 13.84 14.85 20.95	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 298229 241586 230964 346325	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479 \$4,272,825 \$15,584,635
Leominster Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Fair Poor Total Excellent Good Fair Poor Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04 12.33 S Miles 11.87 1.26 4.23 1.97	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696 55775 29997 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$125,639 \$175,913 \$1,039,946 \$1,349,848 \$2,655,345 tion Cost	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76 9.22 9.08 3.72 24.77 L Miles 7.82 12.57 10.63 18.98 50.00	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 125439 122265 53429 Ocal Jurisdi Square Yards 37691 220890 175189 316329 Ocal Jurisdi Square Yards	\$553,602 \$690,365 \$1,488,891 ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379 ction Cost	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 19.69 13.84 14.85 20.95 69.33 Combin Miles	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 298229 241586 230964 346325 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479 \$4,272,825 \$1,584,635 \$22,134,611 Total
Leominster Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Food Fair Food Fair Food Total Excellent Good Fair Total Excellent Good Fair Food Fair	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 0.04 12.33 S Miles 11.87 1.26 4.23 1.97 19.32 S Miles 0.07	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696 557775 29997 tate Juristic Square Yards	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$125,639 \$175,913 \$1,003,946 \$1,49,848 \$2,655,345 tion Cost	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22 9.08 3.72 24.77 Li Miles 7.82 12.57 10.63 18.98 50.00 Li Miles 7.66	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 125439 122265 53429 Ocal Jurisdi Square Yards 130711 220890 175189 316329 Ocal Jurisdi Square Yards 130711 220890 175189 112431	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 Ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379 Ction Cost \$84,323	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 14.85 20.95 69.33 Combin Miles 7.73	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 298229 241586 230964 346325 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479 \$4,272,825 \$1,584,635 \$22,134,611 Total \$85,134
Leominster Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total	1.51 0.07 0.94 16.38 Similes 0.00 0.00 0.00 0.00 0.00 0.00 Similes 11.94 0.13 0.21 0.04 12.33 Similes 11.87 1.26 4.23 1.97 19.32 Similes 0.07 3.16	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696 55775 29997 tate Juristic Square Yards 10814 45180	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$125,639 \$175,913 \$1,003,946 \$1,349,848 \$2,655,345 tion Cost	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22 9.08 3.72 24.77 Li Miles 7.82 12.57 10.63 18.98 50.00 Li Miles 7.66 8.77	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 125439 122265 53429 Ocal Jurisdi Square Yards 130711 220890 175189 316329 Ocal Jurisdi Square Yards 130711 210890 175189 112431	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 Ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379 Ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379 Ction Cost \$84,323 \$997,530	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 19.69 13.84 14.85 20.95 69.33 Combin Miles 7.73 11.93	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 298229 241586 230964 346325 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479 \$4,272,825 \$15,584,635 \$22,134,611 Total \$85,134 \$1,381,558
Leominster Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total	1.51 0.07 0.94 16.38 S Miles 0.00 0.00 0.00 0.00 S Miles 11.94 0.13 0.21 10.04 12.33 S Miles 11.87 1.26 4.23 1.97 19.32 S Miles 0.07 3.16 1.97	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696 55775 29997 tate Juristic Square Yards 1081 45180 31194	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 tion Cost \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$125,639 \$175,913 \$1,003,946 \$1,349,848 \$2,655,345 tion Cost \$811 \$384,028 \$561,496	2.00 2.29 1.19 6.86 L Miles 2.75 10.74 5.32 2.69 21.50 L Miles 2.76 9.22 9.08 3.72 24.77 L Miles 7.82 12.57 10.63 18.98 50.00 L Miles 7.66 8.77 2.93	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 37691 125439 122265 53429 Ocal Jurisdi Square Yards 307411 220890 175189 316329 Ocal Jurisdi Square Yards 316329 Ocal Jurisdi Square Yards 41615	\$553,602 \$690,365 \$1,488,891 ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379 ction Cost \$84,323 \$997,530 \$769,880	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Repair Category Routine Maintenance	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 13.84 14.85 20.95 69.33 Combin Miles 7.73 11.93	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 298229 241586 230964 346325 ed Square Yards 72809	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479 \$4,272,825 \$15,584,635 \$22,134,611 Total \$85,134 \$1,381,558 \$1,346,974
Lancaster Hubbardston	Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total	1.51 0.07 0.94 16.38 Similes 0.00 0.00 0.00 0.00 0.00 0.00 Similes 11.94 0.13 0.21 0.04 12.33 Similes 11.87 1.26 4.23 1.97 19.32 Similes 0.07 3.16	18065 894 11671 tate Juristic Square Yards 0 0 0 0 tate Juristic Square Yards 168164 1881 3005 585 tate Juristic Square Yards 167519 20696 55775 29997 tate Juristic Square Yards 10814 45180	\$153,554 \$16,100 \$525,202 \$856,517 tion Cost \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$126,123 \$15,989 \$54,088 \$26,313 \$222,514 tion Cost \$125,639 \$175,913 \$1,003,946 \$1,349,848 \$2,655,345 tion Cost	2.00 2.29 1.19 6.86 Li Miles 2.75 10.74 5.32 2.69 21.50 Li Miles 2.76 9.22 9.08 3.72 24.77 Li Miles 7.82 12.57 10.63 18.98 50.00 Li Miles 7.66 8.77	29924 15341 Ocal Jurisdi Square Yards 38697 148468 68108 31422 Ocal Jurisdi Square Yards 125439 122265 53429 Ocal Jurisdi Square Yards 130711 220890 175189 316329 Ocal Jurisdi Square Yards 130711 210890 175189 112431	\$553,602 \$690,365 \$1,488,891 Ction Cost \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Ction Cost \$28,269 \$1,066,236 \$2,261,893 \$2,404,301 \$5,760,698 Ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379 Ction Cost \$98,033 \$1,877,566 \$3,240,992 \$14,234,788 \$19,451,379 Ction Cost \$84,323 \$997,530	Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	2.36 2.13 23.24 Combin Miles 2.75 10.74 5.32 2.69 21.50 Combin Miles 14.70 9.35 9.29 3.76 37.10 Combin Miles 19.69 13.84 14.85 20.95 69.33 Combin Miles 7.73 11.93	45232 30819 27013 ed Square Yards 38697 148468 68108 31422 ed Square Yards 205856 127321 125269 54014 ed Square Yards 298229 241586 230964 346325 ed Square Yards	\$384,475 \$570,149 \$1,215,567 \$2,345,855 Total \$29,023 \$1,261,978 \$1,260,004 \$1,413,971 \$3,964,975 Total \$154,392 \$1,082,225 \$2,317,484 \$2,430,614 \$5,984,715 Total \$223,672 \$2,053,479 \$4,272,825 \$15,584,635 \$22,134,611 Total \$85,134 \$1,381,558

		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
Ε		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
Petersham	Excellent	5.76	81115	\$60.836	0.00	0	\$0	Routine Maintenance	5.76	81115	\$60,836
Ś	Good	2.64	35806	\$304,355	2.29	29288	\$248,946	Preventative Maintenance	4.94	65094	\$553,302
ē	Fair	3.54	47153	\$848,758	3.00	38672	\$715,437	Rehabilitation	6.54	85825	\$1,587,771
क		0.45	5967	\$268,520	1.73	22338	\$1,005,191		2.18	28305	\$1,273,710
ш.	Poor		3967	. ,		22330		Reconstruction		20303	. , ,
	Total	12.39		\$1,482,469	7.02		\$1,969,573	Total	19.41		\$3,475,619
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
Phillipston		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
Ħ	Excellent	2.94	24651	\$18,488	0.00	0	\$0	Routine Maintenance	2.94	24651	\$18,488
<u>ğ</u>	Good	1.01	14266	\$121,260	3.06	38272	\$325,315	Preventative Maintenance	4.08	52538	\$446,575
	Fair	2.83	38613	\$695,040	0.05	583	\$10,793	Rehabilitation	2.87	39197	\$725,139
۲	Poor	0.21	2765	\$124,413	2.15	25714	\$1,157,117	Reconstruction	2.36	28478	\$1,281,530
		6.99	2/03		5.26	23/14			12.25	20470	
	Total			\$959,201			\$1,493,225	Total			\$2,471,733
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
n n		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
Royalston	Excellent	0.00	0	\$0	0.60	7574	\$5,680	Routine Maintenance	0.60	7574	\$5,680
=	Good	0.00	0	\$0	1.17	14424	\$122,601	Preventative Maintenance	1.17	14424	\$122,601
\simeq	Fair	0.00	0	\$0	6.83	80260	\$1,484,801	Rehabilitation	6.83	80260	\$1,484,801
2	Poor	0.00	0	\$0	12.37	155398	\$6,992,927	Reconstruction	12.37	155398	\$6,992,927
		0.00	U	\$0	20.95	100090	. , ,		20.95	100090	. , ,
	Total	0.00		\$0	20.95		\$8,606,010	Total	20.95		\$8,606,010
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
è	Excellent	3.36	47347	\$35,510	2.81	43880	\$32,910	Routine Maintenance	6.18	91227	\$68,420
Ĕ	Good	0.00	0	\$0	6.46	92686	\$787,832	Preventative Maintenance	6.46	92686	\$787.832
Shirley	Fair	0.17	2358	\$42,451	3.97	59287	\$1,096,802	Rehabilitation	4.14	61645	\$1,140,432
U)		0.00	0	. ,	3.21	50169	. , ,		3.21	50169	\$2,257,585
	Poor		U	\$0		50169	\$2,257,585	Reconstruction		50169	. , ,
	Total	3.53		\$77,961	16.46		\$4,175,130	Total	19.99		\$4,254,271
		S	tate Juristic	tion	L	ocal Jurisdi	ction		Combin	ed	
_		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
Sterling	Excellent	6.56	92404	\$69,303	0.46	5877	\$4,407	Routine Maintenance	7.02	98281	\$73,711
€	Good	2.39	34035	\$289,294	15.94	194917	\$1,656,796	Preventative Maintenance	18.34	228952	\$1,946,090
<u>te</u>	Fair	13.81	194824	\$3,506,841	4.36	59762	\$1,105,605	Rehabilitation	18.17	254587	\$4,709,858
S				. , ,	4.50	33702	φ1,105,005	I ICHADIIILALIUH	10.17	234307	
			20201	#1 0E0 0C1	2.72	44674	PO 010 220	Decemetrication	6.04	74076	+ ,,
	Poor	2.31	30201	\$1,359,061	3.73	44674	\$2,010,339	Reconstruction	6.04	74876	\$3,369,400
	Poor Total	25.07	30201	\$1,359,061 \$5,224,500	3.73 24.50	44674	\$2,010,339 \$4,777,147	Reconstruction Total	6.04 49.57	74876	+ ,,
		25.07	30201 tate Juristic	\$5,224,500	24.50	44674 ocal Jurisdie	\$4,777,147				\$3,369,400
uc		25.07		\$5,224,500	24.50		\$4,777,147		49.57		\$3,369,400
eton		25.07	tate Juristic	\$5,224,500 tion	24.50 L	ocal Jurisdi	\$4,777,147 ction	Total	49.57 Combin	ed	\$3,369,400 \$10,099,059
pleton	Total Excellent	25.07 S Miles 14.06	tate Juristic Square Yards 197969	\$5,224,500 tion Cost \$148,477	24.50 L Miles 2.00	ocal Jurisdio Square Yards 28156	\$4,777,147 ction Cost \$21,117	Total Repair Category Routine Maintenance	49.57 Combin Miles 16.06	ed Square Yards 226125	\$3,369,400 \$10,099,059 Total \$169,594
mpleton	Total Excellent Good	25.07 S Miles 14.06 3.59	tate Juristic Square Yards 197969 51041	\$5,224,500 tion Cost \$148,477 \$433,850	24.50 L Miles 2.00 7.35	Square Yards 28156 117245	\$4,777,147 ction Cost \$21,117 \$996,584	Total Repair Category Routine Maintenance Preventative Maintenance	49.57 Combin Miles 16.06 10.93	ed Square Yards 226125 168286	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434
Templeton	Total Excellent Good Fair	25.07 Similes 14.06 3.59 2.88	tate Juristic Square Yards 197969 51041 40560	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085	24.50 Lo Miles 2.00 7.35 3.00	ocal Jurisdio Square Yards 28156 117245 39230	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	49.57 Combin Miles 16.06 10.93 5.88	ed Square Yards 226125 168286 79790	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116
Templeton	Excellent Good Fair Poor	25.07 Similes 14.06 3.59 2.88 2.86	tate Juristic Square Yards 197969 51041	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620	24.50 Miles 2.00 7.35 3.00 10.50	Square Yards 28156 117245	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction	49.57 Combin Miles 16.06 10.93 5.88 13.35	ed Square Yards 226125 168286	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437
Templeton	Total Excellent Good Fair	25.07 Singles 14.06 3.59 2.88 2.86 23.38	tate Juristic Square Yards 197969 51041 40560 40325	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031	24.50 Miles 2.00 7.35 3.00 10.50 22.84	ocal Jurisdie Square Yards 28156 117245 39230 143485	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23	ed Square Yards 226125 168286 79790 183810	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116
_	Excellent Good Fair Poor	25.07 Singles 14.06 3.59 2.88 2.86 23.38	tate Juristic Square Yards 197969 51041 40560	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031	24.50 Miles 2.00 7.35 3.00 10.50 22.84	ocal Jurisdio Square Yards 28156 117245 39230	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction	49.57 Combin Miles 16.06 10.93 5.88 13.35	ed Square Yards 226125 168286 79790 183810	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437
_	Excellent Good Fair Poor Total	25.07 Similes 14.06 3.59 2.88 2.86 23.38 Similes	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Miles	ocal Jurisdie Square Yards 28156 117245 39230 143485	\$4,777,147 ction	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles	ed Square Yards 226125 168286 79790 183810	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total
_	Excellent Good Fair Poor	25.07 S Miles 14.06 3.59 2.88 2.86 23.38	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion	24.50 Miles 2.00 7.35 3.00 10.50 22.84	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin	ed Square Yards 226125 168286 79790 183810 ed	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983
_	Excellent Good Fair Poor Total	25.07 Similes 14.06 3.59 2.88 2.86 23.38 Similes	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Miles	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards	\$4,777,147 ction	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles	ed Square Yards 226125 168286 79790 183810 ed Square Yards	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total
_	Excellent Good Fair Poor Total Excellent	25.07 Similes 14.06 3.59 2.88 2.86 23.38 Similes 0.59	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Miles 3.15	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989	\$4,777,147 Ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 Ction Cost \$32,242	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568
Townsend Templeton	Excellent Good Fair Poor Total Excellent Good Fair	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Li Miles 3.15 5.45 2.39	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790
_	Excellent Good Fair Poor Total Excellent Good Fair Food	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407	24.50 L Miles 2.00 7.35 3.00 10.50 22.84 L Miles 3.15 5.45 2.39 2.17	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315
_	Excellent Good Fair Poor Total Excellent Good Fair	25.07 Miles 14.06 3.59 2.88 2.86 23.38 Miles 0.59 0.87 2.81 2.29 6.56	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625	24.50 L/Miles 2.00 7.35 3.00 10.50 22.84 L/Miles 3.15 5.45 2.39 2.17 13.15	Ocal Jurisdie Square Yards 28156 117245 39230 143485 Ocal Jurisdie Square Yards 42989 76704 33610 30487	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$6621,792 \$1,371,908 \$2,677,922	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790
Townsend	Excellent Good Fair Poor Total Excellent Good Fair Food	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion	24.50 L/Miles 2.00 7.35 3.00 10.50 22.84 L/Miles 3.15 5.45 5.43 2.39 2.17	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655
Townsend	Excellent Good Fair Poor Total Excellent Good Fair Food	25.07 Miles 14.06 3.59 2.88 2.86 23.38 Miles 0.59 0.87 2.81 2.29 6.56	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625	24.50 L/Miles 2.00 7.35 3.00 10.50 22.84 L/Miles 3.15 5.45 2.39 2.17 13.15	Ocal Jurisdie Square Yards 28156 117245 39230 143485 Ocal Jurisdie Square Yards 42989 76704 33610 30487	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$6621,792 \$1,371,908 \$2,677,922	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315
ster Townsend	Excellent Good Fair Poor Total Excellent Good Fair Food	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion	24.50 L/Miles 2.00 7.35 3.00 10.50 22.84 L/Miles 3.15 5.45 5.43 2.39 2.17	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945
ster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56 S Miles	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Li Miles 3.15 5.45 2.39 2.17 13.15 Li Miles	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655
ster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 7655	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151	24.50 Limites 2.00 7.35 3.00 10.50 22.84 Limites 3.15 5.45 2.39 2.17 13.15 Limites 1.04	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617
ster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair	25.07 Miles 14.06 3.59 2.88 2.86 23.38 Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467	24.50 L/Miles 2.00 7.35 3.00 10.50 22.84 L/Miles 3.15 5.45 2.39 2.17 13.15 L/Miles 1.04 15.50 2.92	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497 34246	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149
Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Food Fair Foor	25.07 Significant	tate Juristic Square Yards 197969 197060 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936	24.50 Limites 2.00 7.35 3.00 10.50 22.84 Limites 3.15 5.45 2.39 2.17 13.15 Limites 1.04 15.50 2.92 2.27	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$11,76,754 \$633,558 \$1,452,253	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Repair Category Routine Maintenance Repair Category Routine Maintenance Repair Category Routine Maintenance Rehabilitation Reconstruction Reconstruction	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190
ster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair	25.07 Miles 14.06 3.59 2.88 2.86 23.38 Miles 0.59 0.87 2.81 2.29 6.56 Miles 11.42 3.37 4.09 3.56 22.44	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447	24.50 Limites 2.00 7.35 3.00 10.50 22.84 Limites 3.15 5.45 2.39 2.17 13.15 Limites 1.04 15.50 2.92 2.27 21.73	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497 34246 32272	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Preventative Maintenance Rehabilitation	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149
Westminster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Food Fair Foor	25.07 Miles 14.06 3.59 2.88 2.86 23.38 Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09 3.56 22.44 S	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643 tate Juristic	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447 tion	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Li Miles 3.15 5.45 5.45 1.04 15.50 1.04 15.50 2.29 2.27 21.73 Li	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497 34246 32272 ocal Jurisdie	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330 ction	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17 Combin	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190 \$7,556,901
Westminster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Food Fair Foor	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09 3.56 22.44 S Miles	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447 tion Cost	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Li Miles 3.15 5.45 2.39 2.17 13.15 Li Miles 1.04 15.50 2.92 2.27 21.73 Li Miles	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497 34246 32272 ocal Jurisdie Square Yards	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330 ction Cost	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17 Combin Miles	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915 ed Square Yards	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190 \$7,556,901 Total
Westminster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Food Fair Foor	25.07 Miles 14.06 3.59 2.88 2.86 23.38 Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09 3.56 22.44 S	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447 tion	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Li Miles 3.15 5.45 5.45 1.04 15.50 1.04 15.50 2.29 2.27 21.73 Li	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497 34246 32272 ocal Jurisdie	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330 ction	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17 Combin	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190 \$7,556,901
Westminster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09 3.56 22.44 S Miles	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447 tion Cost	24.50 Miles 2.00 7.35 3.00 10.50 22.84 Li Miles 3.15 5.45 2.39 2.17 13.15 Li Miles 1.04 15.50 2.92 2.27 21.73 Li Miles	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497 34246 32272 ocal Jurisdie Square Yards	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330 ction Cost	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17 Combin Miles	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915 ed Square Yards	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190 \$7,556,901
Westminster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total Excellent Foor Total	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09 3.56 22.44 S Miles 0.51 4.04	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$55,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447 tion Cost \$5,440	24.50 Miles 2.00 7.35 3.00 10.50 22.84 L(Miles 3.15 5.45 2.39 2.17 13.15 L(Miles 1.04 15.50 2.92 2.27 21.73 L(Miles 2.09	ocal Jurisdie Square Yards 28156 117245 39230 143485 Ocal Jurisdie Square Yards 42989 76704 33610 30487 Ocal Jurisdie Square Yards 14393 205497 34246 32272 Ocal Jurisdie Square Yards Square Yards 14393	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330 ction Cost \$26,501	Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17 Combin Miles 2.60	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915 ed Square Yards	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190 \$7,556,901 Total \$31,940
Westminster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09 3.56 22.44 S Miles 0.51 4.04 7.72	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643 tate Juristic Square Yards	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447 tion Cost \$5,440 \$496,099 \$2,031,091	24.50 Limites 2.00 7.35 3.00 10.50 22.84 Limites 3.15 5.45 2.39 2.17 13.15 Limites 1.04 15.50 2.92 2.27 21.73 Limites 4.34 4.35	ocal Jurisdie Square Yards 28156 117245 39230 143485 ocal Jurisdie Square Yards 42989 76704 33610 30487 ocal Jurisdie Square Yards 14393 205497 34246 32272 ocal Jurisdie Square Yards 4393 61231 68416	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$6621,792 \$11,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330 ction Cost \$26,501 \$520,466 \$1,265,689	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Repair Category Routine Maintenance Preventative Maintenance	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17 Combin Miles 2.60 6.32 2.60 8.39 12.07	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915 ed Square Yards 42587 119596 181254	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190 \$7,556,901 Total \$31,940 \$1,016,564 \$3,353,199
ster Townsend	Total Excellent Good Fair Poor Total Excellent Good Fair Poor Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total Excellent Good Fair Foor Total	25.07 S Miles 14.06 3.59 2.88 2.86 23.38 S Miles 0.59 0.87 2.81 2.29 6.56 S Miles 11.42 3.37 4.09 3.56 22.44 S Miles 0.51 4.04	tate Juristic Square Yards 197969 51041 40560 40325 tate Juristic Square Yards 7655 11246 36216 29565 tate Juristic Square Yards 158867 46340 52248 49643 tate Juristic Square Yards 7253 58365 112838	\$5,224,500 tion Cost \$148,477 \$433,850 \$730,085 \$1,814,620 \$3,127,031 tion Cost \$5,741 \$95,587 \$651,890 \$1,330,407 \$2,083,625 tion Cost \$119,151 \$393,893 \$940,467 \$2,233,936 \$3,687,447 tion Cost \$5,440 \$496,099	24.50 Limites 2.00 7.35 3.00 10.50 22.84 Limites 3.15 5.45 2.39 2.17 13.15 Limites 1.04 15.50 2.92 2.27 21.73 Limites 2.09 4.34	ocal Jurisdie Square Yards 28156 177245 39230 143485 0cal Jurisdie Square Yards 42989 76704 33610 30487 0cal Jurisdie Square Yards 14393 205497 34246 32272 0cal Jurisdie Square Yards 14393 205497 34246 32272	\$4,777,147 ction Cost \$21,117 \$996,584 \$725,752 \$6,456,817 \$8,200,270 ction Cost \$32,242 \$651,981 \$621,792 \$1,371,908 \$2,677,922 ction Cost \$10,795 \$1,746,724 \$633,558 \$1,452,253 \$3,843,330 ction Cost \$26,501 \$520,466	Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Preventative Maintenance Preventative Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance Rehabilitation Reconstruction Total Repair Category Routine Maintenance	49.57 Combin Miles 16.06 10.93 5.88 13.35 46.23 Combin Miles 3.74 6.32 5.19 4.46 19.71 Combin Miles 12.46 18.87 7.01 5.83 44.17 Combin Miles	ed Square Yards 226125 168286 79790 183810 ed Square Yards 50644 87949 69826 60051 ed Square Yards 173260 251837 86495 81915 ed Square Yards 42587 119596	\$3,369,400 \$10,099,059 Total \$169,594 \$1,430,434 \$1,476,116 \$8,271,437 \$11,347,581 Total \$37,983 \$747,568 \$1,291,790 \$2,702,315 \$4,779,655 Total \$129,945 \$2,140,617 \$1,600,149 \$3,686,190 \$7,556,901 Total \$31,940 \$1,016,564

		State Juristiction			Local Jurisdiction		Combined				
9		Miles	Square Yards	Cost	Miles	Square Yards	Cost	Repair Category	Miles	Square Yards	Total
I	Excellent	111.57	1570180	\$1,177,635	56.65	879591	\$659,694	Routine Maintenance	168.22	2449772	\$1,837,329
0	Good	33.98	476516	\$4,254,268	171.13	2556339	\$21,906,079	Preventative Maintenance	205.12	3032855	\$26,171,077
<u>Q</u>	Fair	62.70	876161	\$15,682,651	92.37	1327710	\$24,201,538	Rehabilitation	155.07	2203870	\$40,317,617
E S	Poor	30.22	385473	\$17,346,271	121.70	1773865	\$79,823,904	Reconstruction	151.92	2159336	\$97,170,129
	Total	238.48		\$38,460,825	441.85		\$126,591,214	Total	680.33		\$165,496,152

In 2010 the Federal Highway Administration (FHWA) recommended that Regional Planning Agencies such as the MRPC undertake a study to establish the cost of maintaining the federal aid eligible roadway system, particularly those federal aid eligible roads in which maintenance and repairs are the responsibility of the cities and towns in the region (Local Jurisdiction). Comparing the conditions between Local and State Jurisdiction federal aid eligible roads it is clear that those federal aid roads routinely maintained by cities and towns are in worse condition than those routinely maintained by the state (State Jurisdiction). In fact the average repair need of \$161,274 per mile on State Jurisdiction roads is 56% less than the \$286,504 per mile average repair need for Local Jurisdiction roads. The Figure below displays the roadway condition averages of both Local and State Jurisdiction federal aid eligible roadways in the region.

FIGURE 1: Regional Conditions



V. FUNDING PROJECTS REGIONWIDE

The difference in condition between Local and State Jurisdiction federal aid roads may mainly be a combination of two factors, the first being that federal aid roads that are State Jurisdiction are a higher Functional Classification than those that are Local Jurisdiction, giving them higher importance when prioritizing projects for funding and the second being the funding available to Municipalities for roadway maintenance (Chapter 90) lagging behind the rising price of such maintenance. Below is a chart showing the Chapter 90 allocations each community in the region received in FY 2015 along with the roadway mileage that that money must maintain.

Table 3 - Chapter 90 Apportionment

Municipality	Local Jurisdiction Miles (Fed Aid and Non-Fed Aid eligible)	Other Jurisdiction Miles	FY 2014 Ch. 90 Apportionment	FY 2015 Ch. 90 Apportionment	% Change
ASHBURNHAM	74.47	9.60	\$347,094	\$346,948	-0.04%
ASHBY	51.97	0.00	\$229,864	\$230,019	0.07%
ATHOL	96.41	18.19	\$501,524	\$500,869	-0.13%
AYER	33.38	12.62	\$273,808	\$244,618	-10.66%
CLINTON	47.24	15.98	\$331,865	\$329,768	-0.63%
FITCHBURG	179.68	50.07	\$1,132,263	\$1,129,125	-0.28%
GA RDNER	92.57	22.82	\$601,894	\$603,714	0.30%
GROTON	99.76	28.28	\$504,768	\$506,686	0.38%
HARVARD	64.43	0.00	\$309,298	\$340,137	9.97%
HUBBARDSTON	82.98	21.51	\$363,965	\$362,808	-0.32%
LANCASTER	59.21	11.04	\$313,136	\$312,248	-0.28%
LEOMINSTER	150.54	38.55	\$1,088,720	\$1,081,766	-0.64%
LUNENBURG	83.02	27.44	\$422,130	\$420,461	-0.40%
PETERSHAM	62.25	6.75	\$256,680	\$256,048	-0.25%
PHILLIPSTON	44.76	2.72	\$190,959	\$189,796	-0.61%
ROYALSTON	69.56	20.90	\$285,922	\$285,121	-0.28%
SHIRLEY	43.68	15.98	\$252,643	\$252,873	0.09%
STERLING	84.87	12.33	\$418,357	\$418,121	-0.06%
TEMPLETON	67.73	13.45	\$342,945	\$339,865	-0.90%
TOWNSEND	86.89	16.88	\$426,174	\$425,690	-0.11%
WESTMINSTER	84.33	11.49	\$413,641	\$419,624	1.45%
WINCHENDON	91.00	27.74	\$448,188	\$447,670	-0.12%
REGIONWIDE	1,750.75	384.34	\$9,455,838	\$9,443,975	-0.13%

As part of the 2014 report and in preparation for the 2015 update to the Regional Transportation Plan, an analysis has been done of pavement related TIP projects in the region. A comparison of Local Jurisdiction vs. State Jurisdiction was made that revealed percentage of miles, cost and cost per mile on projects in each category. The list below shows all pavement related TIP projects on the current 2015 – 2018 TIP and those projects constructed and funded through the TIP in the last 15 years.

Table 4 – Pavement Related TIP Projects

Municipality	Project	Year Advertised	Jurisdiction	Miles	Cost	Status
ASHBURNHAM	RECLAMATION & RELATED WORK ON ROUTE 101 (ASHBY ROAD), FROM STOWELL ROAD TO ROUTE 119	2011	Local	3.0	1,619,200	Complete
ATHOL	RESURFACING & RELATED WORK ON ROUTE 32, FROM ROUTE 2 TO ROUTE 2A	2011	State	0.6	\$783,903	Complete
ATHOL	RECONSTRUCTION AND SAFETY IMPROVEMENTS, ROUTE 2A/ROUTE 32 (MAIN STREET)	2005	Local	2.2	\$6,443,173	Complete
ATHOL/PETERSHAM	RESURFACING & RELATED WORK ON ROUTE 2A, FROM ROUTE 32 TO ROUTES 2/202	2014	State	4.0	\$2,199,604	Advertised
ATHOL	RECONSTRUCTION OF WEST ROYALSTON ROAD, FROM SILVER LAKE STREET TO THE ROYALSTON T.L.	2013	Local	2.0	\$1,996,354	Under Construction
ATHOL/PETERSHAM	RESURFACING & RELATED WORK ON ROUTE 32, FROM 1 MILE NORTH OF ROUTE 101 TO ROUTE 2/ROUTE 32 BRIDGE	2012	State	4.0	\$2,464,033	Complete
CLINTON	RESURFACING & RELATED WORK ON ROUTE 110 (HIGH STREET)	2016*	Local	0.6	\$1,200,000	Design
CLINTON	RECONSTRUCTION & RELATED WORK ON WATER STREET AND BOLTON ROAD	2015*	Local	1.2	\$5,554,983	Design
FITCHBURG	RECONSTRUCTION OF NORTH STREET, FROM PEARL STREET TO ROSS STREET	2007	Local	0.3	\$1,775,680	Complete
FITCHBURG/LEOMINSTER	FITCHBURG- LEOMINSTER- IMPROVEMENTS & SIGNALIZATION OF ROUTE 12 (PHASE I & II)	2007	Local	1.7	\$8,490,034	Complete
FITCHBURG	ROADWAY RECONSTRUCTION AND RELATED WORK ON A SECTION OF SUMMER STREET	2004	Local	0.5	\$2,606,107	Complete
FITCHBURG	MILLING & RESURFACING, ROUTE 2A (LUNENBURG STREET) FROM HIGHLAND STREET TO PERKINS STREET	2004	Local/State	0.6	\$468,504	Complete
FITCHBURG/LUNENBURG/ LEOMINSTER	RECONSTRUCTION OF SUMMER STREET AND NORTH STREET	2017*	Local	1.8	\$6,944,357	Design
GARDNER	RESURFACING & RELATED WORK ON ROUTE 140	2009	Local	1.6	\$1,794,959	Complete
GARDNER	RESURFACING, GREEN STREET FROM MATTHEWS STREET NORTHERLY TO ROUTE 140	2005	Local	0.8	\$632,341	Complete
GARDNER/WESTMINSTER	ROUTE 140 COLD PLANE OVERLAY, BOX WIDENING, SIGNAL RECONSTRUCTION, CHANNELIZATION GREEN ST. TO SCENIC DR.	2004	State	3.2	\$2,363,847	Complete
GARDNER	RESURFACING & RELATED WORK ON MATTHEW STREET FROM GREEN STREET TO ROUTE 140	2016	Local	1.4	\$724,662	Design
HUBBARDSTON	RECONSTRUCTION OF ROUTE 62 (OLD BOSTON TURNPIKE) FROM BARRE T.L. TO THE PRINCETON T.L.	2008	Local	4.1	\$3,551,769	Complete
HUBBARDSTON	RESURFACING AND RELATED WORK ON BURNSHIRT ROAD	2014	Local	1.8	\$1,333,179	Under Construction
LANCASTER	RESURFACING AND RELATED WORK ON ROUTE 70 (LUNENBURG ROAD) FROM ROUTE 2 TO MM 18.496	2001	Local	2.3	\$378,772	Complete
LEOMINSTER	RESURFACING AND RELATED WORK ON ROUTE 13 (MAIN STREET) FROM LUNENBURG T.L. TO PROSPECT STREET	2003	Local	2.4	\$1,762,918	Complete
LEOMINSTER	RECONSTRUCTION ON ROUTE 13, FROM HAWES STREET TO PROSPECT STREET	2016*	Local	0.6	\$3,188,763	Design
LEOMINSTER	RECONSTRUCTION OF MECHANIC STREET, FROM LAUREL STREET TO THE LEOMINSTER CONNECTOR	2015*	Local	0.8	\$3,291,840	Design
PETERSHAM	RESURFACING & RELATED WORK ON ROUTE 32, FROM BARRE T.L. TO 1 MILE NORTH OF ROUTE 101	2010	State	5.88	\$2,290,386	Complete
ROYALSTON	RECLAMATION OF ATHOL RICHMOND ROAD (ROUTE 32), FROM ELM AVENUE TO THE N.H. S.L	2009	Local	5.3	\$3,473,902	Complete
SHIRLEY	RESURFACING & BOX WIDENING ON TOWNSEND ROAD, FROM ROUTE 225 TO TOWNSEND T.L.	2006	Local	2.0	\$3,831,089	Complete
TEMPLETON	RECONSTRUCTION OF ROUTE 101 (DUDLEY/PETERSHAM ROAD)	2005	Local	2.1	\$5,044,530	Complete
TEMPLETON	RECONSTRUCTION OF ROUTE 202, FROM PHILLIPSTON T.L. TO WINCHENDON T.L.	2006	State	4.8	\$4,341,128	Complete
TEMPLETON	RECONSTRUCTION OF BALDWINVILLE ROAD, FROM ROUTE 202/68 TO PATRIOTS ROAD	2012	Local	3.6	\$4,310,977	Complete
WESTMINSTER	ROADWAY RECONSTRUCTION ON WEST MAIN STREET FROM ROUTE 2 TO ROUTE 2A (MAIN STREET)	2001	Local	0.7	\$1,388,860	Complete
WESTMINSTER	RECONSTRUCTION ON SOUTH STREET, FROM DAWLEY STREET/CARTER ROAD TO MAIN STREET (ROUTE 2A)	2011	Local	0.5	\$2,503,721	Complete
WINCHENDON	RESURFACING AND RELATED WORK ON A SECTION OF ROUTE 140 (GARDNER ROAD)	2003	Local	2.1	\$551,410	Complete
WINCHENDON	RESURFACING & RELATED WORK ON ROUTE 12, FROM MILL STREET/BEGINNING OF STATE HIGHWAY TO NEW HAMPSHIRE STATE LINE	2017*	Local	2.5	\$1,800,000	Design
WINCHENDON	RESURFACING & IMPROVEMENTS ON ROUTE 140, FROM THE GARDNER T.L. TO TEEL ROAD	2013	Local	2.1	\$1,341,901	Complete
* :Scheduled in current TIP						Source: MassDOT

Table 5 - Projects by Community

Community	Number of Projects	Total Cost	Total Miles
Ashburnham	1	1,619,200	3.0
Athol	5	\$13,887,067	12.8
Clinton	2	6,754,983	1.8
Fitchburg*	5	\$20,284,682	4.9
Gardner*	4	\$5,515,809	7.0
Hubbardston	2	\$4,884,948	5.9
Lancaster	1	378,772	2.3
Leominster*	5	\$23,677,912	7.3
Lunenburg*	1	\$6,944,357	1.8
Petersham*	3	\$6,954,023	13.9
Royalston	1	\$3,473,902	5.3
Shirley	1	\$3,831,089	2.0
Templeton	3	\$13,696,635	10.5
Westminster*	2	\$6,256,428	4.4
Winchendon	3	\$3,693,311	6.8

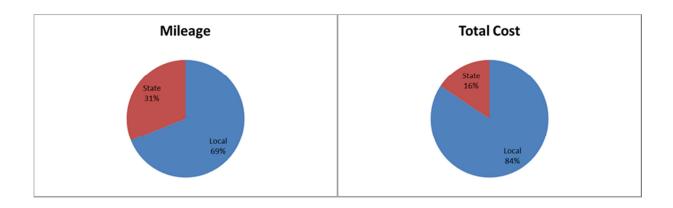
^{* =} Has projects shared with other communities that are reflected in table

Region wide roughly 2/3rd of federal aid eligible roadway miles are local jurisdiction. This is comparable to the percentage local jurisdiction pavement related TIP projects from the list above. When looking at the overall amount on funds spent on Local Jurisdiction roads however, construction on state roads cost 41% less per mile than construction on local jurisdiction roads. Again, this reflects the trend of current conditions across the region as local roads are in need of the most extensive repairs. The table and chart below is a breakdown of past projected expenditures on TIP projects through the region.

Jurisdiction

	Miles	Cost	Cost Per Mile
Local (27 Projects)	49.99	\$77,535,481	1,551,020
State (6 Projects)	22.48	\$14,442,901	642,478
Combination (1 Project)	0.60	\$468,504	780,840
Total (34 Projects)	73.07	\$92,446,886	1,265,183

Figure 2 – Total Mileage and Cost of Pavement Related TIP Projects



Pavements are often the single largest expense in any municipal road maintenance budget. Chapter 90 allocations often do not provide sufficient funding to maintain local roads at the current condition let alone make major improvements. Due to inadequate funding it is recommended that communities routinely target funding for federal aid eligible Local roadways through the Transportation Improvement Program (TIP). It is also encouraged that a Pavement Management Plan be implemented by communities to keep on track of maintenance needs and schedules to contribute to a cost effective approach to maintaining roadways.

VI. PAVEMENT PERFORMANCE MEASURES IN THE MONTACHUSETT REGION

FIGURE 3 below displays the concept of lifecycle cost. A pavements lifecycle is the time between reconstruction periods. Lifecycle cost is the total cost spent on maintenance and repairs for a particular pavement section during its life cycle. One of the main focuses of pavement management is to keep lifecycle cost low to stretch the dollar in what is commonly an ever decreasing maintenance budget.

Lifecycle of a Road CONDITION **REPAIR** 70% of time Excellent Routine 3.5 - 5.0Maintenance PSI 1\$ for repair here Good **Preventative** 2.8 - 3.5Maintenance PSI Fair Rehabilitation 2.3 - 2.8Will cost PSI 5-8\$ 15% of time here

8

FIGURE 3 – Pavement Lifecycle

Poor

0 – 2.3 PSI

0

In 2008 MRPC surveyed communities in the Montachusett region about their involvement in municipal Pavement Management System activities. Local municipal programs range from non-existent to basic annually maintained spreadsheets to ongoing contracts with consultants utilizing the latest Pavement Management software to analyze town roadways. Although a pavement management program does involve additional costs on top of maintenance budgets, many communities are realizing there potential to save money by making well informed decisions in the long run. The costs and benefits of utilizing a Pavement Management System should be weighed and discussed with the appropriate decision makers.

12

YEARS

16

One of the main highlights of the 2015 update to the RTP will be the implementation of Performance Measures. *Performance measurement is the use of statistical evidence to determine progress toward specific defined organizational objectives* (FHWA Resource Center). Performance measures in pavement management will be included in the 2015 plan. MRPC, along with MassDOT will work over the next year to determine attainable goals for the road network involving measurable and cost effective applications.

Reconstruction

20

Due to the rising cost of improvements and the declining funds for preserving existing infrastructure it is challenging to make improvements to the pavement network. Building a historical and measurable database of conditions in the Montachusett region allows for a snapshot of overall conditions which will allow us to determine how the network changes over time. As our regional program progresses it will be important to apply best practices to improve, or at the very lease maintain the condition of pavements throughout the region.

APPENDIX A

Surface Transportation Program (STP) and National Highway System (NHS) Roads

The following lists show all Surface Transportation Program (STP) and National Highway System (NHS) roads in the Montachusett region by municipality. Roads in bold lettering are surveyed by MassDOT, and those that are not bolded are surveyed by the MRPC and analyzed using RSMS.

City/Town	STP Roads	City/Town	STP Roads
Ashburnham	Rte. 12 (from Westminster TL to Winchendon TL)	Hubbardston	Rte. 68 (from Princeton TL to Gardner CL)
Ashburnham	Rte. 101 (from Gardner CL to Rte. 119)	Hubbardston	Rte. 62 (from Barre TL to Princeton TL)
Ashburnham	Rte. 119 (from Ashby TL to New Hampshire SL [Rindge State Rd.])	Hubbardston	Barre Rd.
Ashburnham	South Main St.	Hubbardston	Elm St.
Ashburnham	Westminster St.	Hubbardston	Brigham St.
Ashby	Rte. 119 (from Townsend TL to Ashburnham TL)	Hubbardston	New Westminster Rd.
Ashby	Rte. 31 (From Fitchburg TL to New Hampshire SL)	Hubbardston	Williamsville Rd. (from Barre TL to Burnshirt Rd.)
Athol	Daniel Shays HWY	Hubbardston	Burnshirt Rd.
Athol	Partridgeville Rd. (from Orange TL to Eagleville Rd.)	Lancaster	Rte. 70 (from Lunenburg TL to Clinton TL)
Athol	Eagleville Rd.	Lancaster	Rte. 117 (from Leominster CL to Bolton TL)
Athol	South Athol Rd.	Lancaster	Rte. 110 (from Bolton TL to Clinton TL)
Athol	Carbon St.	Lancaster	Rte. 62 (from Sterling TL to Clinton TL)
Athol	Exchange St.	Lancaster	Bolton Rd.
Athol	Hapgood St.	Lancaster	Center Bridge Rd.
Athol	Chestnut St. (from Main St. to Hapgood St.)	Lancaster	Old Common Rd.
Athol	Riverbend St.	Lancaster	Mill St.
Athol	School St.	Lancaster	Chace Hill Rd.
Athol	Traverse St.	Lancaster	Deershorn Rd.
Athol	Pleasant St.	Lancaster	Sterling Rd. (from Deershorn Rd. to Main St.)
Athol	Rte. 32 (from Petersham TL to Royalston TL)	Lancaster	South Meadow Rd. (from Clinton TL to Sterling St.)
Athol	Bridge St.	Lancaster	Parker Rd.
Athol	Chestnut Hill Ave.	Lancaster	Shirley Rd. (from Shirley TL to Fort Pond Rd.)
Athol	Rte. 2A (from Phillipston TL to Orange TL)	Lancaster	Fort Pond Rd.
Athol	North Orange Rd.	Lancaster	George Hill Rd. (from Main St. to Bolton Rd.)
Athol	Pinedale Ave.	Leominster	North St.

City/Town	STP Roads	City/Town	STP Roads
Athol	Pequoig Ave.	Leominster	Rte. 13 (from Lunenburg TL to Rte. 12)
Athol	Wellington St. (from Crescent St. to Pequoig Ave)	Leominster	Rte. 12 (from Rte 2 Exit 31 to Sterling TL)
Athol	Lenox St. (from Pinedale Ave. to Silver Lake St. [Rte. 32])	Leominster	Rte. 117 (from Central St. to Lancaster TL)
Athol	Mt. Pleasant St. (from Main St. [Rte. 2A] to North Orange Rd.)	Leominster	Lincoln St.
Ayer	Rte 2A (from Shirley TL to rotary)	Leominster	Eastern Ave
Ayer	Rte. 111 (from Groton TL to rotary)	Leominster	Industrial Rd. (from Eastern Ave to Tolman Ave.)
Ayer	Groton Shirley Rd.	Leominster	Tolman Ave. (from Main St. [Rte. 13] to Industrial Rd.)
Ayer	Washington St.	Leominster	Day St.
Ayer	West Main St.	Leominster	Joslin St.
Ayer	Central Ave.	Leominster	Pierce St. (from Joslin St. to Vista Ave./Haskell Ave.)
Ayer	Sandy Pond Rd.	Leominster	Vista Ave
Ayer	Westford Rd.	Leominster	Haskell Ave.
Ayer	Willow Rd. (from Commuter Rail tracks to Westford Rd.)	Leominster	Prospect St.
Ayer	Groton Harvard Rd.	Leominster	Harvard St.
Ayer	Old Groton Rd.	Leominster	Nashua St.
Ayer	Columbia St. (from Main St. to Central Ave.)	Leominster	Crawford St.
Clinton	Rte. 70 (from Lancaster TL to Boylston TL)	Leominster	Beacon St.
Clinton	Rte. 62 (from Lancaster TL to Berlin TL)	Leominster	Fairmont St.
Clinton	Rte. 110 (from Lancaster TL to Sterling TL)	Leominster	Mill St.
Clinton	Greeley St.	Leominster	Priest St.
Clinton	Woodlawn St. (from Rigby St. to Pine St.)	Leominster	Lindell Ave. (from Rte. 12 [N. Main St.] to Maple St.)
Clinton	Pine St. (from Woodlawn St. to New Harbor Rd.)	Leominster	Grove Ave.
Clinton	New Harbor Rd.	Leominster	Washington St.
Clinton	Franklin St.	Leominster	Walnut St.
Clinton	Beacon St.	Leominster	Abbot Ave.
Clinton	South Meadow Rd.	Leominster	Blossom St.
Clinton	Brook St.	Leominster	Merriam Ave.
Clinton	Grove St. (from Beacon St. to Chestnut St.)	Leominster	Granite St. (from West St. to Kingman Dr.)
Clinton	High St.	Leominster	Kingman Dr.
Clinton	Walnut St. (from Union St. to Water St.)	Leominster	Exchange St. (from Kingman Dr. to West St.)

City/Town	STP Roads	City/Town	STP Roads
Clinton	Church St. (from Main St. to Chestnut St.)	Leominster	Orchard St. (from Merriam Ave to West St.)
Clinton	Cameron St.	Leominster	Pond St.
Clinton	Oak St. (from Boylston St. to Berlin St.)	Leominster	Pleasant St.
Clinton	Berlin St.	Leominster	Franklin St.
Clinton	Water St.	Leominster	Union St.
Clinton	Bolton Rd.	Leominster	Litchfield St.
Clinton	Branch St.	Leominster	Willard St. (from Central St. to Lancaster St.)
Clinton	Vale St. (from Branch St. to Water St.)	Leominster	Watchusett St.
Clinton	Allen St.	Leominster	Elm St. (from Wachusett St. to Sterling TL)
Clinton	Plain St. (from Main St. to High St.)	Leominster	Viscoloid Ave.
Clinton	Highland St. (from Sterling St. to Greeley St.)	Leominster	Sixth St. (from Lancaster St. to Mechanic St.)
Clinton	Green St.	Leominster	Mechanic St.
Clinton	Rigby St. (from Greeley St. to Woodlawn St.)	Leominster	Leominster Connector
Fitchburg	Rte. 31 (from Westminster TL to Westminster St.; from Main St. to Ashby TL) including:	Leominster	Whitney St.
	Princeton Rd.	Leominster	Water St. (from Main St. to Whitney St.)
	See NHS	Leominster	West St. (from Main St. to Maple Ave.)
	Mechanic St.	Leominster	Maple Ave.
	Ashby State Rd.	Lunenburg	Rte. 2A (from Shirley TL to Fitchburg CL)
Fitchburg	Rte. 12 (from Westminster TL to Water St.) Including:	Lunenburg	Rte. 13 (from Leominster CL to Townsend TL)
	Ashburnham St.	Lunenburg	Rte. 225 (West Groton Rd.)
	See NHS	Lunenburg	Townsend Harbor Rd.
	Kimball St.	Lunenburg	Leominster Rd.
	Laurel St. (from Kimball St. to Water St.)	Lunenburg	Lancaster Ave.
Fitchburg	Rte. 2A (from Lunenburg TL to Willow St) Including	Lunenburg	Leominster-Shirley Rd.
	Lunenburg St.	Lunenburg	Fort Pond Rd.
	Main St. (from Lunenburg St. to Willow St.)	Lunenburg	Prospect St.
	See NHS	Lunenburg	Whalom Rd.
	Laurel St. (from Water St. to Willow St.)	Lunenburg	Summer St.
	Kimball St.	Lunenburg	Lakefront Ave.

City/Town	STP Roads	City/Town	STP Roads
Fitchburg	Pearl St.	Lunenburg	Pratt St.
Fitchburg	Coolidge Ave.	Lunenburg	West St. (from Pratt St. to Pleasant St.)
Fitchburg	Klondike Ave.	Lunenburg	Pleasant St.
Fitchburg	Boutelle St.	Lunenburg	White St.
Fitchburg	North St.	Lunenburg	West Townsend Rd.
Fitchburg	Blossom St.	Lunenburg	New West Townsend Rd.
Fitchburg	Academy St. (from Main St. to High St.)	Lunenburg	Northfield Rd. (from Chase Rd. to Highland St.)
Fitchburg	High St. (from Academy St. to Mechanic St.)	Lunenburg	Highland St.
Fitchburg	Boulder Dr. (from Main St./Snow St. intersection to Cushing St.)	Lunenburg	Main St.
Fitchburg	Summer St.	Lunenburg	Fish St.
Fitchburg	Harvard St.	Petersham	Rte. 101 (Popple Camp Rd.)
Fitchburg	Bemis Rd.	Petersham	Rte. 32 (from Barre TL to Athol TL)
Fitchburg	Wanoosnoc Rd. (from Bemis Rd. to South St.)	Petersham	Rte. 32A (Hardwick Rd.)
Fitchburg	Intervale Rd.	Petersham	Rte. 122 (from New Salem TL to Barre TL)
Fitchburg	Airport Rd.	Phillipston	Rte. 2A (State Rd.)
Fitchburg	Crawford St.	Phillipston	Rte. 101 (from Templeton TL to Petersham TL)
Fitchburg	Benson St.	Phillipston	Petersham Rd.
Fitchburg	Abbott Ave.	Phillipston	Rte. 68 (Main Rd.)
Fitchburg	Whalon St.	Phillipston	Rte. 202 (from Templeton TL to Rte. 2)
Fitchburg	South St. (from Whalon St. to Laurel St.)	Royalston	Rte. 68 (from Templeton TL to Rte. 32)
Fitchburg	Birch St. (from Water St. to Heywood St.)	Royalston	Rte. 32 (from Athol TL to New Hampshire SL)
Fitchburg	Canton St.	Royalston	Winchendon Rd.
Fitchburg	Heywood St. (from Old South St. to Birch St.)	Royalston	Athol Rd.
Fitchburg	Old South St. (from Heywood St. to Electric Ave./South St. intersection)	Shirley	Rte. 2A (Great Rd.)
Fitchburg	Electric Ave.	Shirley	Rte. 225 (Groton Rd.)
Fitchburg	Franklin Rd. (from Depot St. to Rollstone St.)	Shirley	Townsend Rd.
Fitchburg	Depot St.	Shirley	Lawton Rd.
Fitchburg	Oak Hill Rd.	Shirley	Parker Rd.
Fitchburg	Mt. Elam Rd.	Shirley	Center Rd.
Fitchburg	Rollstone St.	Shirley	Leominster Rd.
Fitchburg	Pine St.	Shirley	Main St.
Fitchburg	Pratt Rd.	Shirley	Front St.

City/Town	STP Roads	City/Town	STP Roads
Fitchburg	St. Joseph Ave.	Shirley	Lancaster Rd.
Fitchburg	Fairmount St.	Shirley	Walker Rd.
Fitchburg	Fairmount Pl.	Sterling	Rte. 12 (from Lancaster TL to West Boylston TL)
Fitchburg	Beech St.	Sterling	Rte. 62 (from Lancaster TL to Princeton TL)
Fitchburg	River St. (from Oak Hill Rd. to Daniels St.)	Sterling	Rte. 140 (Redemption Rock Trail)
Fitchburg	Daniels St. (from Clarendon St. to Kimball St.)	Sterling	Rte. 110 (Metropolitan Rd.)
Fitchburg	Reingold Ave.	Sterling	Greenland Rd.
Fitchburg	Laurel St.	Sterling	Dana Hill Rd.
Fitchburg	Putnam St.	Sterling	Muddy Pond Rd.
Fitchburg	Fifth Mass. TPK (from Oak Hill Rd. to Princeton Rd.)	Sterling	Boutelle Rd.
Fitchburg	Ashburnham St.	Sterling	Campground Rd.
Fitchburg	Ashburnham Hill Rd.	Sterling	Gates Rd.
Fitchburg	Wallace St.	Sterling	Squareshire Rd. (from Campground Rd. to Chace Hill Rd.)
Fitchburg	Main St. (from Ashburnham Hill Rd. to River St.)	Sterling	Chace Hill Rd. (from Rte 110 to Swett Hill Rd.)
Fitchburg	Richardson Rd. (from Fisher Rd. to Ashby State Rd. [Rte. 31])	Sterling	Swett Hill Rd.
Gardner	Rte. 101 (from Ashburnham TL to Templeton TL)	Sterling	Kendall Hill Rd. (from Maple St. to Swett Hill Rd.)
Gardner	Rte. 2A (from Westminster TL to Templeton TL)	Sterling	Maple St. (from Main St. to Kendall Hill Rd.)
Gardner	Rte. 68 (from Hubbardston TL to Templeton TL)	Sterling	Redstone Hill Rd. (from Clinton Rd. to Rugg Rd.)
Gardner	Matthews St.	Sterling	Meetinghouse Hill Rd. (from Main St. to Rowley Hill Rd.)
Gardner	Betty Springs Rd.	Sterling	Rowley Hill Rd. (from Meetinghouse Hill Rd. to Rte. 190 overpass)
Gardner	Green St. (from Rte. 140 to Elm St.)	Sterling	Pratts Junction Rd.
Gardner	Elm St.	Sterling	Chocksett Rd.
Gardner	Woodland Ave.	Templeton	Rte. 202 (from Winchendon TL to Phillipston TL)
Gardner	Chestnut St.	Templeton	Rte. 68 (from Gardner CL to Phillipston TL)
Gardner	Cross St.	Templeton	Rte. 2A (Patriots Rd.)
Gardner	Cross St. EXT.	Templeton	Rte. 101 (from Gardner CL to Phillipston TL)
Gardner	Lawrence St. (from Pearl St. to Cross St. EXT.)	Templeton	North Main St. (from Rte 101/2A intersection to Depot Rd.)
Gardner	Pine St.	Templeton	Depot Rd.
Gardner	Logan St.	Templeton	Baldwinville Rd.

City/Town	STP Roads	City/Town	STP Roads
Gardner	Sherman St.	Templeton	Hubbardston Rd.
Gardner	Main St. (from Pearson BLVD. to Rte. 68)	Templeton	South Main St. (from Rte. 101/2A intersection to Cross St.)
Gardner	Pearson BLVD.	Templeton	Cross Rd.
Gardner	VFW Circle	Templeton	Barre Rd.
Gardner	South Main St.	Templeton	Bridge St.
Gardner	Union St.	Templeton	Main St.
Gardner	Minott St.	Townsend	Rte. 119 (Main St.)
Gardner	Emerald St.	Townsend	Rte. 13 (from Lunenburg TL to New Hampshire SL)
Gardner	Pleasant St.	Townsend	Lunenburg Rd.
Gardner	Baker St. (from Pleasant St. to Waterford St.)	Townsend	West Elm St.
Gardner	Waterford St. (from Rte. 101 to Baker St.)	Townsend	Canal St.
Gardner	City Hall Ave.	Townsend	Mason Rd.
Gardner	Greenwood St. (from Pleasant St. to Baker St.)	Townsend	New Fitchburg Rd. (from Rte. 119 to Vinton Pond Rd./Bayberry Hill Rd. intersection)
Gardner	Elm St.	Townsend	Warren Rd.
Gardner	Park St.	Townsend	South St.
Gardner	Eaton St.	Townsend	Shirley Rd.
Gardner	Oak St.	Westminster	Rte. 12 (Ashburnham State Rd.)
Gardner	Racette Ave.	Westminster	South Ashburnham Rd.
Gardner	Sand St.	Westminster	Bacon St.
Gardner	Coleman St.	Westminster	North Common Rd. (from Bacon St. to Oakmont Ave.)
Gardner	Clark St. (from Park St. to Racette Ave.)	Westminster	Oakmont Ave.
Gardner	Nichols St. (from Parker St. [Rte. 101] to Baker St.)	Westminster	Rte. 140 (from Princeton TL to Exit 24 on Rte. 2)
Gardner	Temple St.	Westminster	State Rd. West (Rte 2A)
Gardner	Union Sq.	Westminster	Minott Rd. (from Gardner CL to intersection of Whitney St./Ellis Rd.)
Gardner	Willow St.	Westminster	South St.
Groton	Rte. 119 (from Townsend TL to Pepperell TL)	Westminster	Mile Hill Rd.
Groton	Rte. 119 (from Pepperell TL to Littleton TL)	Westminster	Gatehouse Rd.
Groton	Rte. 111 (from Pepperell TL to Ayer TL)	Westminster	East Rd.
Groton	Rte. 225 (from Shirley TL to Westford TL)	Westminster	Stonehill Rd.
Groton	Rte. 40 (Lowell Rd.)	Westminster	Narrows Rd.
Groton	Townsend Rd.	Westminster	Depot Rd.
Groton	Pepperell Rd.	Westminster	Rte. 31 (Fitchburg Rd.)

City/Town	STP Roads	City/Town	STP Roads
Groton	Broadmeadow Rd.	Winchendon	Spring St. (Rte. 12) from Ashburnham TL to Gardner Rd. (Rte. 140)
Groton	Old Ayer Rd.	Winchendon	Rte. 202 (from Templeton TL to New Hampshire SL)
Groton	School St.	Winchendon	Glenallan St. (from Spring St. to Rte. 202 to the New Hampshire SL)
Groton	Hollis St.	Winchendon	Elmwood Rd. (from Central St. to Glenallan St.)
Groton	Chicopee Row Rd.	Winchendon	Central St. (from Maple St. to Elmwood Rd.)
Groton	Longley Rd.	Winchendon	Hall Rd.
Groton	Nashua Rd.	Winchendon	High St. (from Central St. to Teel Rd.)
Groton	Sandy Pond Rd.	Winchendon	Teel Rd. (from High St. to Hall Rd.)
Harvard	Rte. 110 (from Bolton TL to Rte. 2)	Winchendon	River St.
Harvard	Rte. 111 (from Boxborough TL to Rte. 2)		
Harvard	Stow Rd. (from Eldridge Rd. to Codman hill Rd.)		

City/Town	NHS Roads	City/Town	NHS Roads
Athol	Rte. 2	Harvard	Rte. 2 (from Littleton TL to Lancaster TL)
Athol	Rte. 202	Harvard	Rte. 110 (from Rte. 2 to Ayer TL)
Ayer	Rte. 2A (from Littleton TL to rotary)	Harvard	Rte. 111 (from Rte. 2 to Ayer TL)
Ayer	Rte. 110 (from Littleton TL to Harvard TL)	Lancaster	Rte. 2 (from Harvard TL to Leominster CL)
Ayer	Rte. 111 (from Harvard TL to rotary)	Lancaster	Rte. 190 (from Leominster CL to Sterling TL)
Ayer	Willow Rd. (from Littleton TL to Commuter Rail tracks)	Leominster	Rte. 2
Fitchburg	Rte. 2	Leominster	Rte. 190
Fitchburg	Rte. 12 (from Leominster CL to Laurel St.; from Kimball St. to Ashburnham St.) including:	Leominster	Rte. 12 (N. Main St. from Fitchburg CL to Rte. 2 Exit 31)
	Water St. (from Leominster CL to Laurel St.)	Phillipston	Rte. 2 (from Templeton TL to Athol TL)
	See STP	Phillipston	Rte 202 (from Rte. 2 to Athol TL)
	River St. (from Kimball St. to Ashburnham St.)	Sterling	Rte. 190 (from Lancaster TL to West Boylston TL)
Fitchburg	Rte. 2A (from Westminster TL to Kimball St.; from Laurel St. to Willow St.) including:	Templeton	Rte. 2 (from Gardner CL to Phillipston TL)

City/Town	NHS Roads	City/Town	NHS Roads
	Westminster St.	Westminster	Rte. 2A (State Rd. East [Fitchburg CL to Rte. 2 Exit 25])
	River St. (from Westminster St. to Kimball St.)	Westminster	Rte. 2 (from Fitchburg CL to Gardner CL)
	See STP	Westminster	Rte. 140 (West Main St. [Exit 24 on Rte. 2 to Gardner CL])
	Water St. (from Laurel St. to Main St.)	Winchendon	Rte. 12 (From Gardner Rd [Rte. 140] to New Hampshire SL) including:
	Main St. (from Water St. to Willow St.)	Winchendon	Spring St. (from Gardner Rd. [Rte. 140] to Central St.)
Fitchburg	Rte. 31 (from Princeton Rd. to Mechanic St.)	Winchendon	Main St. (from Central St. to School St.)
Gardner	Rte. 2 (from Westminster TL to Templeton TL)	Winchendon	Rte. 12 (From Gardner Rd [Rte. 140] to New Hampshire SL) including:
Gardner	Rte. 140 (from Westminster TL to Winchendon TL)		Spring St. (from Gardner Rd. [Rte. 140] to Central St.)
			Main St. (from Central St. to School St.)
			School St.
		Winchendon	Rte. 140 (Gardner Rd.)

APPENDIX B

Federal Aid Eligible Roads Maps

APPENDIX C

Pavement Conditions Maps