



CAPE COD
COMMISSION

Pavement Management Report 2012 Status Report

November 2012





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1. Introduction

As an essential task required by the Cape Cod Metropolitan Planning Organization (MPO) through its Unified Planning Work Program, this report provides the status of pavement condition assessment activities on Cape Cod. The objectives of this effort are to collect data and implement a regional pavement management system for Cape Cod to provide an objective rating of pavement conditions and needs.

The pavement management process is conducted with the intent to keep the roadway system in the best possible condition with the most efficient use of available funds. There are distinct advantages to managing pavement condition and significant cost savings that can take place with preventative or rehabilitation measures rather than waiting until a road is in need of reconstruction. As stated in the MPO-approved Cape Cod Regional Transportation Plan, the goal of the pavement management process is for all federal aid-eligible roads to be maintained in “excellent” condition. Of course, due to the reality of limited financial resources, it is necessary to prioritize pavement repair based on affordability. Deciding which roads to improve and by what technique in a fiscally responsible manner is the essence of Pavement Management.

1.1 PAVEMENT MANAGEMENT SYSTEMS - BACKGROUND

Pavement Management is the practice of planning for pavement repairs and maintenance with the goal of maximizing the value and life of a pavement network.

To accomplish this, a community needs to have several repair techniques in its arsenal and the knowledge of when to apply them. This is where pavement management comes into play. With a comprehensive database of road conditions, the pavement management software can model when to perform which repairs on a road network. Of course, engineering judgment is required to finalize any list of street repairs, as no computer model can take every variable analyzed in making a repair decision into account. The computer system is a great springboard to help a community start its repair program for each year and is an excellent method of storing the repair data.

Below is a model of how a street’s pavement deteriorates over time. Interpreting the curve, a street starts out in excellent condition when it is newly constructed. Midway through its life, a low cost repair such as crack seal and full depth patch will cost approximately a dollar a square yard. It takes only a few years for the window of opportunity to perform this low cost maintenance to pass after which the road would need an overlay costing \$13 - \$17 per square yard. By performing timely maintenance, road conditions can be improved today thereby extending the life of the road.

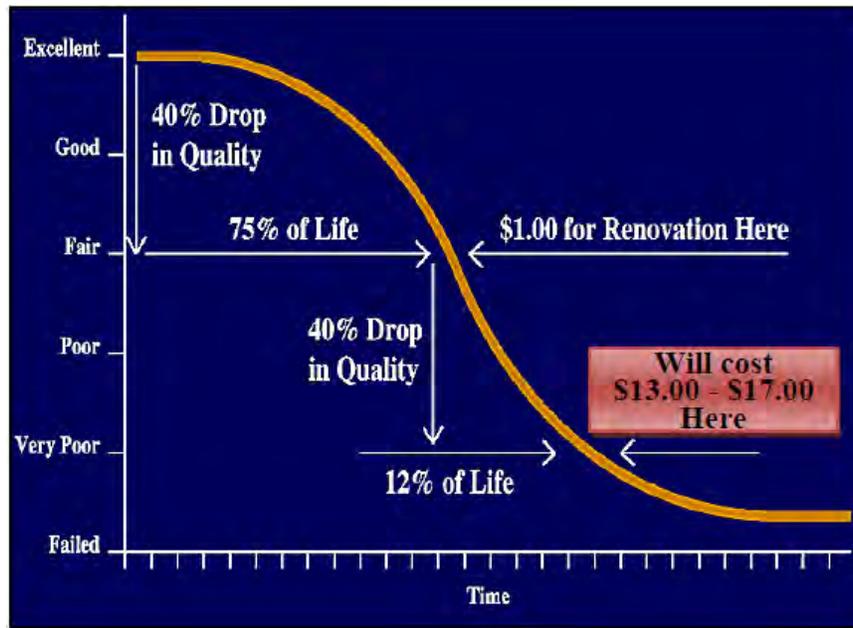


Figure 1 - Pavement Deterioration Curve

Source: Vanasse Hangen Brustlin

1.2 EVALUATION CRITERIA FOR CCC DATA COLLECTION

The Cape Cod Commission has continued to collect pavement condition data in 2011 and 2012 through two distinct efforts: a series of “Windshield Surveys” and spot observations at specific locations where the seasonal traffic technicians were installing Automatic Traffic Recorders (ATRs). In both cases observers were given photographs and descriptions of example pavement distresses. Observers used a 1 – 5 rating system and made notations of particular distresses. Copies of the observations are provided in the appendix of this report. The following table is a summary of the guidance given to observers:

Table 1 - CCC Evaluation Criteria

Condition	Description	Criteria
1	Very Good to Excellent	No cracking rutting, raveling/ signs of wear
2	Good to Very Good	No cracking, rutting, showing a little wear
3	Fair to Good	Showing evidence or more wear and possibly repairs that are in good condition
4	Poor to Fair	Evidence of cracking, rutting, serious wear
5	Poor	Severe cracking, rutting, potholes

1.3 SURVEY OF CAPE COD COMMUNITIES' PMS ACTIVITIES

In early September 2011, an email survey was sent to each of the 15 towns' Department of Public Works directors. Follow-up inquiries were made in the spring of 2012. The survey included the following questions:

1. Do you maintain records of pavement quality on your community's roadways?
2. Can you send [electronically preferred] summaries of pavement quality assessments?
3. What system/method do you use to assess pavement quality?
4. Can you send us a report/documentation of methods used?

5. What method do you use to determine repair strategies?
6. Do you have estimated costs for implementing various repair strategies?
7. Can you forward us cost estimates sheets?
8. Do you have a capital plan for pavement improvement?
9. Can you forward us a copy of the capital plan?

Several communities have responded as summarized in the following sections.

1.3.1 BARNSTABLE PMS ACTIVITIES

The Town of Barnstable utilizes detailed survey and analysis performed by VHB as a Consultant. Their work is entered onto Barnstable's database and periodic reports are provided and discussed. The DPW participates in the data analysis, particularly in the cost analysis. DPW reviews project bids received by the Town and establishes base line costs for each pavement treatment band, these costs are discussed with the town's consultant - then utilized in the pavement conditions report. In addition to the VHB work, the DPW maintains a record of roadway repairs and relies upon experienced field personnel to assist in planning for individual maintenance tasks such as crack & chip seal. DPW also informally monitors the performance of all treatments. Key to the pavement management program is coordination with other utilities and proposed roadway rehabilitation information is passed to utility companies. A moratorium is in place for 5 years after application of a new surface. The Town of Barnstable does not maintain a public "5 year plan" - because of political considerations.

Submitted materials include:

- VHB-prepared "2010 Pavement Management Report." See section 1.4.1 for discussion of VHB Pavement Management Systems.
- Excel workbook containing typical costs for various items involved in pavement repair and related road work.

1.3.1 BOURNE PMS ACTIVITIES

Bourne is currently doing road resurfacing on an as-needed basis. The town tries to repave four to five miles of roadway each year. In doing that, the town has kept their main roads as their top priority and then broken off into the subdivisions. Bourne does not currently have a capital plan. The town is in discussion with a consultant to look at Bourne's roads and begin working toward a formal pavement management plan.

1.3.2 DENNIS PMS ACTIVITIES

The Town of Dennis uses VHB's Pavement Management for guidance. The term "guidance" is used because while VHB keeps Dennis' pavement quality records, does field verification on a 1/5th per year basis, grades the town's roads and makes recommendations for repairs, the town has to spend road funds based on several factors that the program is not designed to consider. These local parameters are: some work in each of Dennis' 5 villages each year, reconstruction of failed roads, resurfacing of dirt roads and lumping the type of repair to give off-cape vendors enough to give the town a reasonable rate.

The town has not had an assessment prepared of estimated costs for various repair strategies for several years. The town's capital plan for pavement improvement allocates \$600,000 per year for "secondary roads." Chapter 90 funds are used exclusively for primary roads.

1.3.1 EASTHAM PMS ACTIVITIES

The Town of Eastham is developing a pavement management system. Current efforts include detailed spreadsheets identifying treatment strategies.

Submitted materials include:

- Spreadsheet listing of town roads with summary of face type
- Spreadsheet listing of Town & Private Roads in Town of Eastham with summary of surface type
- Spreadsheet listing of town roads with itemized surface type

1.3.2 FALMOUTH PMS ACTIVITIES

Falmouth uses VUEWorks Asset Management Software to track their Public Works Assets. Falmouth has just begun to use the Pavement Condition rating system that is a module of the system. It is based on the ASTM rating system. Falmouth has provided a copy of their Pavement Manual, a report of the roads they have rated so far, and a sample report of one of the roads. Falmouth uses a couple of strategies to determine their repair schedule. The town has a 10-year roadway plan for major repairs. This is funded by the town operating budget and a Capital Plan. Falmouth has provided both of these documents. The town also has a service call/ work order system to take requests from the public for signs, potholes, sweeping and grading, etc.

Falmouth does not have cost estimate sheets. The town does some work in-house and contracts its crack sealing and large repairs out. These are covered by the town operating budget and Capital Plan.

Submitted materials include:

- Sample Pavement Condition Form
- VUEWorks Pavement Management System Training Guide
- FY 2013-2022 Capital Improvement Program summary form
- Public Works Department Roadway Maintenance Program FY 2012-2023

1.3.3 HARWICH PMS ACTIVITIES

The Town of Harwich DPW utilizes an online database that was developed with Bonsai Logic (a small local software developer) to maintain a road inventory, to develop cost estimates, to reconcile DPW estimates against actual expenses and to maintain a roadwork history. The DPW does not utilize the database to develop a PCI (Pavement Condition Index). The town rates roads in 1 of 4 structural conditions: good, fair, deficient, intolerable

The DPW does have a 5 year road maintenance plan that is updated every few years and is available on the Harwich website. The town uses Chris Nickerson, Highway Road Manager who is a certified pavement inspector, to develop a plan based on his experience, training and knowledge of Harwich's 481 public roads (142 miles). The

town attempts to balance maintenance with repair in an attempt to avoid costly reconstruction utilizing many different processes and procedures. For costs, the town utilizes county bid pricing (p. 2 of the town's Five Year Maintenance Plan).

Submitted materials include:

Summary of roadwork since 2005: excludes any TIP projects

- **FY 12-18 Capital Plan – Proposed spending for town capital improvements including pavement maintenance/repair**
- **Roadwork job examples - Detailed itemized breakdown at pavement repair work at two town locations.**
- **5 Year Road Maintenance Plan FY11-FY15 – detailed plan of various repair proposals for many town roads, including itemized costs.**
- **Harwich Road Inventory – 2010 listing of all town roads. Includes information such as surface width and type, condition (scale of 1 to 4), and length.**

1.3.4 SANDWICH PMS ACTIVITIES

The Town of Sandwich retained the firm of Vanasse Hangen Brustlin (VHB) to perform pavement management services. A comprehensive study was undertaken to re-evaluate pavement conditions in Sandwich and to allow for the analysis of various funding scenarios. VHB performed a detailed inspection of the condition of the pavement on all town-maintained roads and updated a database of this information using VHB's "Road Manager" software.

To determine road repair strategies, the town mainly uses PCI (Pavement Condition Index) and Benefit. For estimated costs for implementing various repair strategies, the town uses the County's bid process and incorporates these into their own spreadsheets. The town's 5-Year plan changes dramatically year-to-year but provides a guide to follow as funds become available.

Submitted materials included the following:

- **VHB Presentation on Sandwich Pavement Management**

- Road Program Map – color coded map of town roads assigned to years (2006 – 2010)
- Excel workbook listing town roads with PCI, Benefit, and Repair Alternative information
- Excel workbook itemizing bid costs for various repairs by various vendors
- Excel workbook itemized by road, listing planned paving projects
- Excel workbook itemizing repair type, treatment, and comments for town roads, separately for each year 2007-2011
- Pavement Management Update Study – VHB-prepared 2006 report. See section 1.4.1 for discussion of VHB Pavement Management Systems.

1.3.1 TRURO PMS ACTIVITIES

Truro uses local knowledge to determine pavement repair priorities.

1.3.2 YARMOUTH PMS ACTIVITIES

The Town of Yarmouth retained the firm of Vanasse Hangen Brustlin (VHB) to perform pavement management services. VHB services consist of performing a comprehensive study to evaluate pavement conditions in Yarmouth and to allow for the analysis of various funding scenarios; perform a detailed inspection of the condition of the pavement on all town-maintained roads and update a database of this information using VHB's "Road Manager" software.

To determine repair strategies, the town reviews an initial list generated by the software and then decides whether to apply chip seal, double ship seal, or overlay. Main roads are treated with rubber chip seal or overlay. In the town's capital plan, annual spending ranges from \$1.3 million to \$1.5 million for roadway maintenance.

1.4 SUMMARY OF TOWN PMS EFFORTS

Based on responses from the September 2011 email survey and follow-up in the spring of 2012, the following table summarizes the techniques that responding towns use for pavement management.

Table 2 - Summary of Responding Towns' PMS Techniques

Town	Pavement Management Technique
Barnstable	VHB Pavement Management System
Bourne	Local knowledge – as needed basis
Dennis	VHB Pavement Management System
Eastham	Locally developed -spreadsheets
Falmouth	VUEWorks Asset Management Software
Harwich	Bonsai Logic Roadway Inventory
Sandwich	VHB Pavement Management System
Truro	Local knowledge
Yarmouth	VHB Pavement Management System

1.4.1 VHB PAVEMENT MANAGEMENT SYSTEM

The most prevalent technique (as identified by many of the towns responding to the email survey) is the Pavement Management System developed by Vanasse Hangen Brustlin (VHB). The following sections contain excerpts describing the VHB techniques. These techniques are included in the reports submitted by the various towns:

1.4.1.1. Methodology

VHB performed a detailed condition evaluation of each town's public roadways to build the pavement management system. The first step was to identify the roadway network. The second step was to further break each street in the roadway network into pavement management sections. The third step was to carefully categorize, measure, and record the individual pavement distresses within each pavement management section and perform the inventory of sidewalks, curbs, and ramps. Finally, the fourth step was to customize the road repair treatment selection and unit costs within the pavement management software through discussions with Town officials. All these steps were performed prior to the study of future funding scenarios.

Network Identification

Network Identification builds an inventory of streets that describe the municipality's complete roadway network. The direction of travel, street length, width, ownership, classification, zone and pavement type are among the items identified at this initial phase in the pavement management process. This integral step ensures the streets surveyed are the definitive set to be analyzed.

Pavement Management Section Identification

Once the Network Identification is complete, the field work begins. Each street contains one or more pavement management sections. A pavement management section defines the limits of previous construction or maintenance activities within each street. Sections are defined by having the same width, typical distresses, functional class, etc. The goal is to set up homogenous areas of pavement to aid in assigning the appropriate repair. A street may be one section, or it may be comprised of several pavement management sections, depending on its construction history.

Surface Distress Assessment

For each pavement management section, the severity and extent of nine major pavement distresses are recorded, and then entered into a weighted formula to arrive at a Pavement Condition Index (PCI). The distresses are categorized as base related or surface related distresses. Base related distresses indicate that the pavement structure is inadequate for the existing traffic load and soil conditions. Streets that show significant base related distresses may need to have the pavement structure strengthened with either thicker or stronger base or pavement materials. Surface related distresses are caused by age and weathering of the pavement. Streets that have predominantly surface related distresses are excellent candidates for maintenance sealing to inhibit further pavement oxidization (the main effect of aging). Streets with more of the base related distresses will most likely need some full depth patching, structural overlays or reclamation/reconstruction.

The four base related distresses are:

- potholing or non-utility patching
- alligator cracking
- distortion
- rutting

The five surface related distresses are:

- block cracking
- transverse or longitudinal cracking
- bleeding or polished aggregate
- surface wear or raveling
- shoving, slippage or corrugation



PCI Defined

A PCI is generated for each inventoried pavement management section in the town using the surface distress data collected by VHB. PCI is measured on a scale of zero to one hundred, with one hundred representing a pavement in perfect condition and zero describing a road in impassable condition. Each type of observed pavement distress is assigned a deduct value based on the type, severity and extent of the distress. A weighted sum of the deduct points is subtracted from the perfect “one hundred” road in order to generate a PCI for each pavement management section. In general, base related (pavement foundation) distresses are weighted more heavily than surface related distresses. For example, if 15% of a road section had medium severity “Alligator Cracking” it would receive a deduct of 40 points. Whereas the same area of “Block Cracking” would only receive a deduct of 15 points. The actual PCI calculation follows:

$$\text{PCI} = 100 - (\text{Highest Deduct Value}) - (25\% \text{ of remaining base related deduct values}) - (10\% \text{ of remaining surface related deduct values})$$

The Five Treatment Bands

The pavement management system uses broad ranges to group the individual repair types into five major treatment bands. Treatment bands are a useful tool to summarize data on a Town-wide basis. An individual road segment will fall into a particular category based on the strategy table's output of repair types and will vary due to functional classification. The goal is to gain a broad understanding of the existing conditions in simple yet meaningful terms.

Table 3 - Treatment Band Descriptions

TREATMENT BAND	PCI *	Description
DO NOTHING	93-100	Excellent condition - in need of no maintenance.
ROUTINE MAINTENANCE	86-92	Good condition – may be in need of crack sealing or minor localized repair.
PREVENTIVE MAINTENANCE	76-85	Fair condition – pavement surface may be in need of surface sealing, full depth patch and/or crack sealing.
STRUCTURAL IMPROVEMENT	56-75	Deficient condition – pavement surface structure in need of added strength for existing traffic. Typical repairs are overlay with or without milling.
BASE REHABILITATION	0-55	Poor condition – in need of base improvement. Typical repairs are reclamation or full depth reconstruction.

**Note: Treatment bands are defined below. These are only general PCI ranges for reference purposes, and represent only one pavement type. There are several fields considered by the strategy table when assigning repair types to each individual street. Source: VHB*

Do Nothing

The Do Nothing category exhibits roads which are in need of no maintenance. These roads are in excellent condition and existing distresses generally do not need to be addressed.

Routine Maintenance

Routine maintenance activities are those which are taken to correct a specific pavement distress. Routine maintenance usually addresses localized pavement defects and includes activities such as:

- Full depth patching;
- Skin patching;
- Crack sealing.

Preventive Maintenance

Preventive maintenance activities are those which are performed at planned intervals to protect and seal the pavement. Seals are designed to provide one or more of the following benefits:

- Prevent the intrusion of air and moisture;
- Fill small cracks and voids;
- Rejuvenate an oxidized binder;
- Provide a new wearing surface.

Structural Improvement

Structural improvement includes the work necessary to restore the pavement to a condition that will allow it to perform satisfactorily for several years. Generally a structural improvement will consist of a milling the existing pavement down and applying a new Hot Mix Asphalt Overlay allowing existing grades to be maintained. When the existing grade can be increased a new Hot Mix Asphalt course can simply be placed upon the existing surface. Structural improvements also include the work necessary to prepare the pavement for an overlay, either with or without milling. The major activities involved in the rehabilitation process are:

- Partial depth patching;
- Full depth patching;
- Joint and crack sealing.
- Grinding and milling
- Hot Mix Asphalt Leveling Courses.

Base Rehabilitation

Base rehabilitation utilizes one of two methods:

- Reclamation;
- Reconstruction.

Reclamation is the process of rehabilitating existing deteriorated pavements. The existing pavement and base, subbase, and possibly subgrade are pulverized and blended to create a homogenous pavement base. This reclaimed pavement base is then paved with a new Hot Mix Asphalt surface. Reconstruction is the complete removal and replacement of a failed pavement, and might also involve widening, realignment, traffic control devices, safety hardware, and major base and drainage work.

Customizing Repair Strategies

VHB meet with the Town DPW to review VHB's typical repair strategies, and to learn how to customize these strategies to meet the Town's specific needs. VHB also refines repair unit costs. VHB's goal was to understand the town's decision making process and simulate that process in the budget analysis software based on the pavement condition and other criteria of each pavement section.

Preparing Budget Scenarios

Once the roadway conditions are inventoried and analyzed, and the repair strategies are defined, the impact of various spending programs on the roadway network is assessed. These studies can range from 1 to 20 years; typically 5-year studies are used. The purpose of the budget planning process is to determine the impact of various spending levels to find a funding level that will best meet the town's needs. The budget analysis software uses pavement deterioration curves, unit costs, and the strategy tables developed in the repair strategy definition phase to assign each street a repair type and associated cost for each year of the study. The software also assigns each street a benefit value that is used to prioritize which streets the software will select for repair each year. It is important to understand that a pavement management system is a network-wide planning tool, and is not intended to give definitive street-by-street repair data. Field verification and testing are recommended to confirm any street repair list generated.

Deterioration Curves

In order to properly plan for future repairs, the budget analysis feature of the pavement management system uses deterioration curves. The deterioration curves estimate the rate at which the pavement condition decreases over time. These pavement deterioration curves depict two major categories of functional classification - arterials



and collectors in one curve and local roads in the other. An example deterioration curve is presented in the following figure:

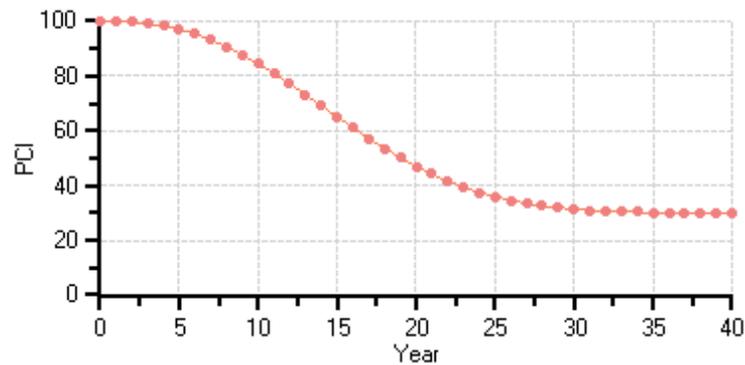


Figure 2 - Sample Deterioration Curve

Source: VHB

Strategy Table

The pavement management system uses a table of repair strategies to assign specific road repair types to individual roadway segments. The repair strategy table incorporates PCI ranges as well as functional class and pavement type to simulate decisions consistent with Barnstable’s repair practices and procedures.

Project Prioritization

The budget analysis software prioritizes needed system repairs based on the estimated “Benefit Value”. The Benefit Value formula is calculated using variables representing traffic volume, repair service life, PCI, and unit repair costs for each pavement management section. For each plan year, the software prepares a future roadway condition projection, exhausts the assigned budget, and then produces an annual list of roads included in the repair program. The system also allows the user to enter an inflation rate to account for estimated increases in future year construction costs. A 4% inflation rate is typically used.

The Benefit Value prioritization process generally favors cost effective maintenance alternatives. Repair actions are typically delayed on those sections that require reconstruction or major rehabilitation because the benefits for dollars spent are

generally lower than maintenance candidates. After the relatively good roads are "saved," improvements are directed towards the poorer arterial and collector roads, and then to the local roads in need of major rehabilitation.

1.5 ANALYSES

The data collected in the monitoring process will be continually compared to the measures developed to define congestion. The comparison will be used to identify congested areas and trigger an investigation into the nature of the demand problems

1.5.1 MASSDOT EVALUATIONS OF PAVEMENT CONDITIONS

As seen in the following table presented in the Cape Cod Regional Transportation Plan, the Cape Cod Region possesses 738.98 miles of roadway eligible for federal funding. Of those miles, 541.19 are under the jurisdiction of the Cape's local communities.

Table 4 – RTP MassDOT Data Available by Jurisdiction

Total Miles	Jurisdiction - Ownership				Available Data for Local Jurisdiction	
	MassDOT	%	Municipal	%	Data Miles	%
Cape Cod 738.98	197.79	26.77%	541.19	73.23%	85.25	15.75%

MassDOT evaluates roads under their own jurisdiction and a selection of municipally-owned roadways. The following table lists the corresponding rating from Excellent to Poor, based on a "PSI" rating – roughly analogous to the "Pavement Condition Index" (PCI) commonly used.

Pavement Condition	Excellent	Good	Fair	Poor
"PSI" Range	PSI >=3.5	PSI 2.8-3.5	PSI 2.3-2.8	PSI < 2.3

The following map identifies the roadways that have been evaluated (shown in red) and those that lack evaluation (shown in blue).

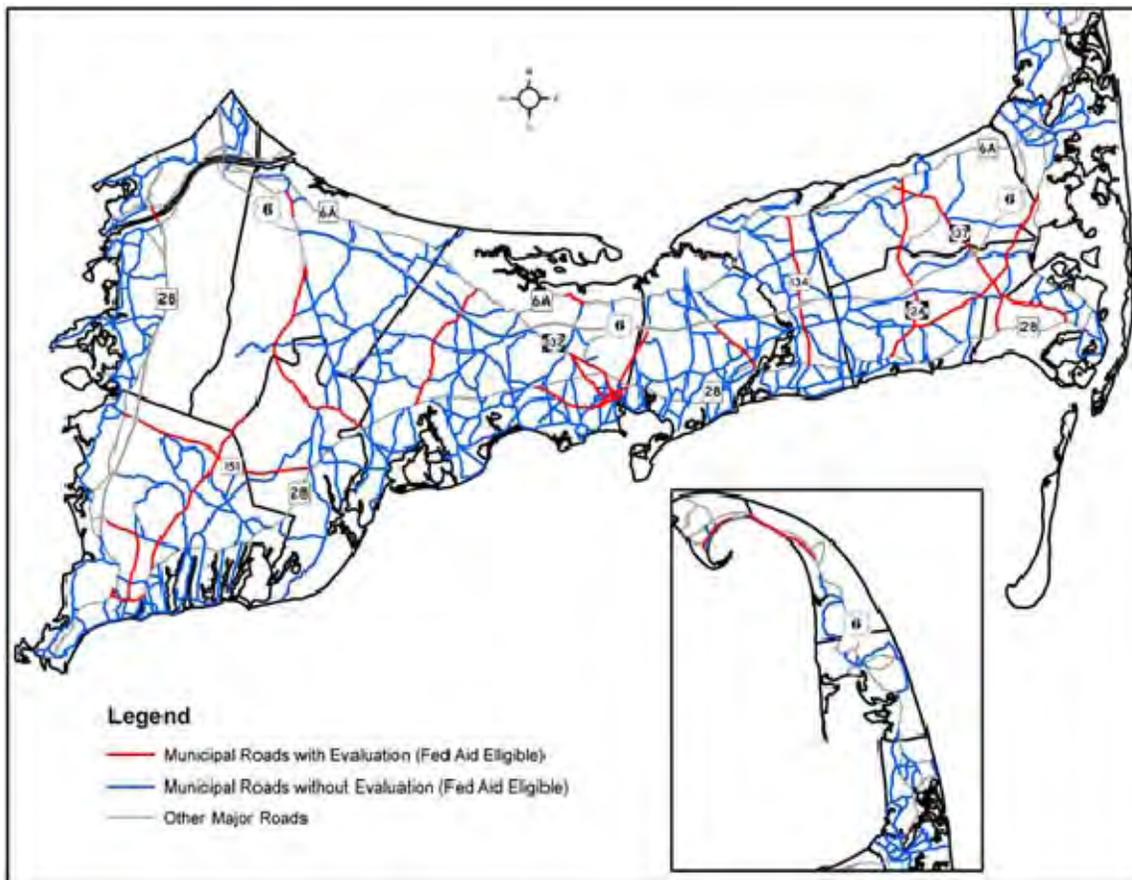


Figure 3 - MassDOT Evaluation of Municipal Roads

A recent effort undertaken by the CCC technical staff utilizing recent Massachusetts Roadway Inventory information has identified a slightly lower mileage (80.09) of federal-aid eligible municipal roadways with pavement condition evaluation (vs. 85.25 miles in table above). As seen in the table below, MassDOT Roadway Inventory information is available for 80.09 miles of federal-aid eligible municipal roadways. 22.17 of those miles are in “excellent” condition, almost 20.5 miles are in “good” condition, 30.71 miles are in “fair” condition, and about 6.7 miles of evaluated roads are in “poor” condition.

The Geographic Information System pavement file shows 1,040 road segments of varying length evaluated for pavement condition between 2006-2009. Over 800 of these segments were evaluated in 2009, less than 200 were evaluated in 2006, and the remainder in 2007-2008.

Table 5 - MassDOT Roadway Inventory Pavement Conditions - Miles

Town	Excellent	Good	Fair	Poor	Totals
Barnstable	1.72	2.73	7.94	3.66	16.04
Bourne	0.41	0.00	0.00	0.00	0.41
Brewster	1.19	1.53	4.48	0.00	7.20
Chatham	1.14	1.34	1.33	0.00	3.80
Dennis	1.26	1.23	2.24	0.20	4.92
Eastham	0.00	0.00	0.00	0.14	0.14
Falmouth	4.63	5.30	4.68	0.48	15.09
Harwich	3.15	1.56	5.56	0.59	10.86
Mashpee	3.93	1.03	1.90	0.17	7.04
Orleans	0.33	0.28	0.00	0.00	0.61
Provincetown	0.00	0.54	0.63	1.12	2.29
Sandwich	1.98	1.45	0.85	0.00	4.27
Truro	1.19	2.13	0.90	0.35	4.56
Wellfleet	0.00	0.00	0.00	0.00	0.00
Yarmouth	1.25	1.39	0.22	0.00	2.86
Totals	22.17	20.50	30.71	6.70	80.09

Source: MassDOT, 2006-2009 Data

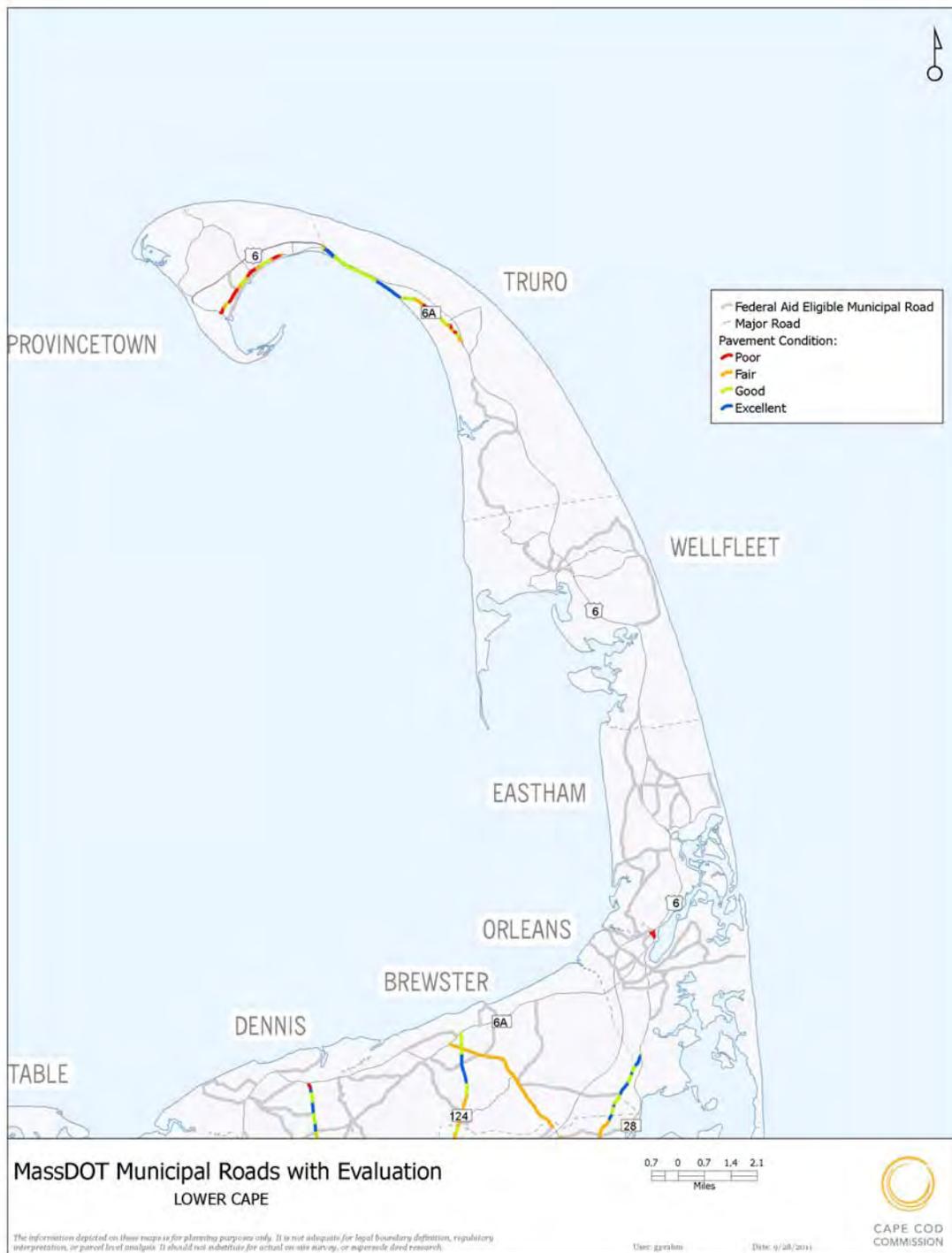
The maps in the following figures shows the four categories of pavement condition(see Table 5) on the MassDOT-evaluated roadways available in a series of three maps (Upper Cape, Mid-Cape, and Lower Cape). The MassDOT evaluations are shown as thick solid colored lines ranging from Blue (Excellent) to Red (Poor).



**Figure 4 - 2006-2009 MassDOT Evaluation of Municipal Roads:
Upper Cape**



Figure 5 - 2006-2009 MassDOT Evaluation of Municipal Roads: Mid-Cape



**Figure 6 - 2006-2009 MassDOT Evaluation of Municipal Roads:
Lower Cape**

1.5.2 CCC EVALUATIONS OF PAVEMENT CONDITIONS – WINDSHIELD SURVEYS

Using the MassDOT pavement evaluation discussed in the previous section as a basis for new data collection, CCC staff undertook a series of Windshield Surveys throughout Barnstable County. Selecting at least one road in each town listed as “Municipal Roads without Evaluation,” CCC staff observed pavement conditions according to the criteria in Table 1. Copies of the detailed observations are available in the appendix.

The following table provides a summary by town of CCC windshield survey data.

Table 6 - CCC Surveys of Pavement Condition - miles

Town	Very Good to Excellent	Good to Very Good	Fair to Good	Poor to Fair	Poor	Totals
Barnstable	0.88	1.34	12.49	10.14	0.20	25.05
Bourne	0.57	1.70	16.97	1.81	0.00	21.05
Brewster	0.00	0.00	6.70	8.73	0.00	15.43
Chatham	0.00	0.00	1.44	0.00	0.00	1.44
Dennis	0.00	2.53	17.93	2.89	0.04	23.38
Eastham	0.00	1.35	4.55	4.04	0.00	9.94
Falmouth	0.64	1.06	4.24	14.25	0.27	20.46
Harwich	0.00	4.51	4.40	2.24	0.00	11.14
Mashpee	0.00	2.33	7.35	0.38	4.13	14.19
Orleans	0.00	1.01	4.13	5.15	0.00	10.29
Provincetown	0.00	0.13	0.36	0.04	0.00	0.54
Sandwich	3.33	4.26	8.76	12.45	0.02	28.82
Truro	0.00	0.00	1.55	3.20	0.00	4.75
Wellfleet	0.00	1.14	5.60	1.47	0.00	8.21
Yarmouth	0.00	2.57	1.86	4.93	0.62	9.98
Totals	5.42	23.94	98.31	71.72	5.28	204.68

As shown in the table above, over 200 miles of survey data were collected throughout the 15 towns of Barnstable County in 2011 and 2012. The most common rating “Fair to



Good” yielded over 98 miles. This is followed by almost 72 miles of “Poor to Fair,” almost 24 miles of “Good to Very Good” and over five miles for both “Very Good to Excellent” and “Poor.”

The following figures provide a graphic of the CCC survey data in a series of three maps (Upper Cape, Mid-Cape, and Lower Cape). The CCC evaluations are shown as colored parallel lines ranging from Blue (Very Good to Excellent) to Red (Poor).



Figure 7 - 2011-2012 CCC Pavement Condition Surveys: Upper Cape



Figure 8 - 2011-2012 CCC Pavement Condition Surveys: Mid-Cape

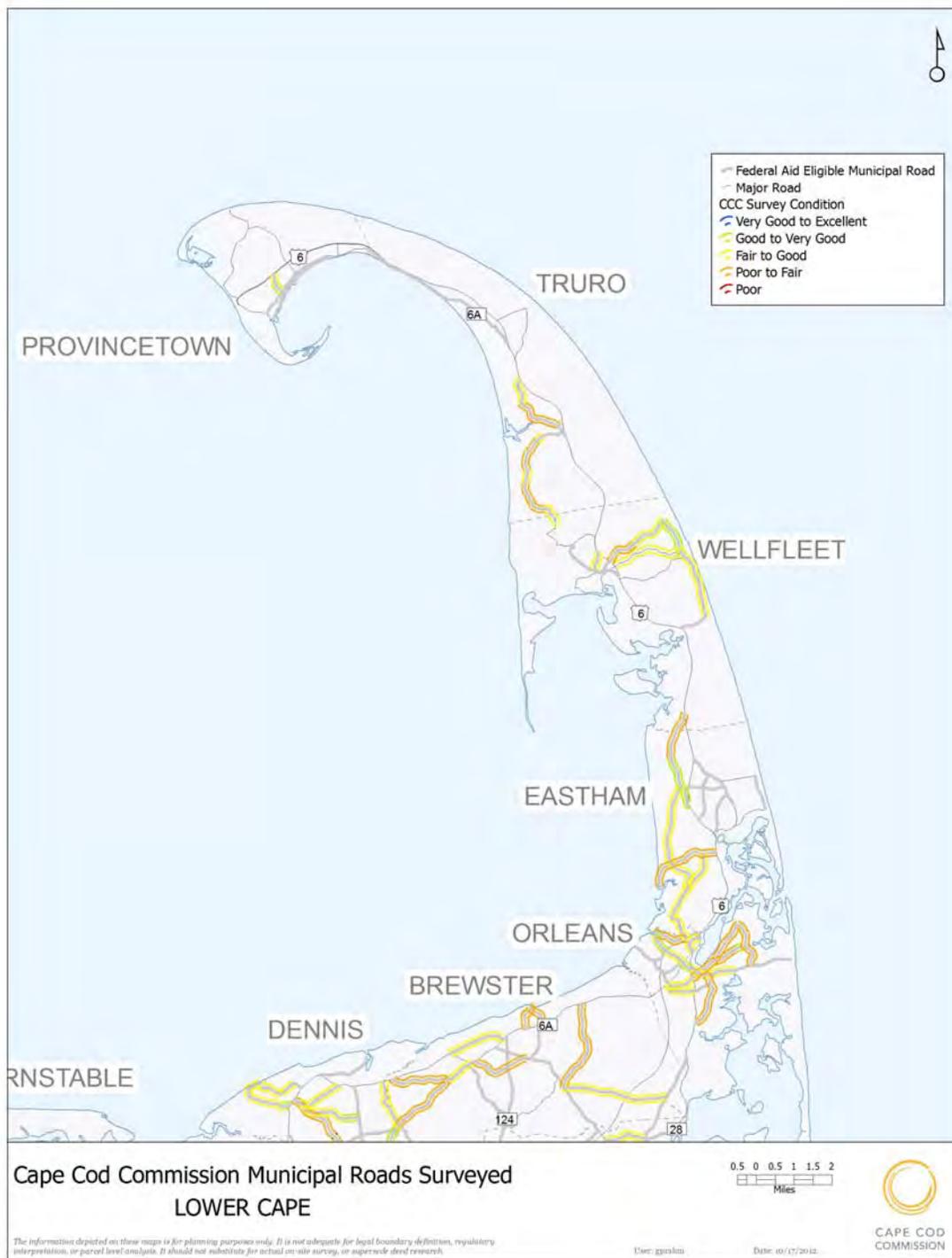


Figure 9 - 2011-2012 CCC Pavement Condition Surveys: Lower Cape



When combined with MassDOT's "Municipal Roads with Evaluation" information, the following figures represent conditions of many of the County's Municipal Roads. In some cases CCC evaluations were made on sections of roads also evaluated by MassDOT. The figures are presented geographically (Upper Cape, Mid-Cape, and Lower Cape) and show the combined evaluations by colored lines. For MassDOT evaluations, the colors of the thick solid lines range from Blue (Excellent) to Red (Poor). For the CCC evaluations, the colors of the parallel lines range from Blue (Very Good to Excellent) to Red (Poor).



Figure 10 - MassDOT & CCC Evaluations (2006-2012): Upper Cape



Figure 11 - MassDOT & CCC Evaluations (2006-2012): Mid-Cape

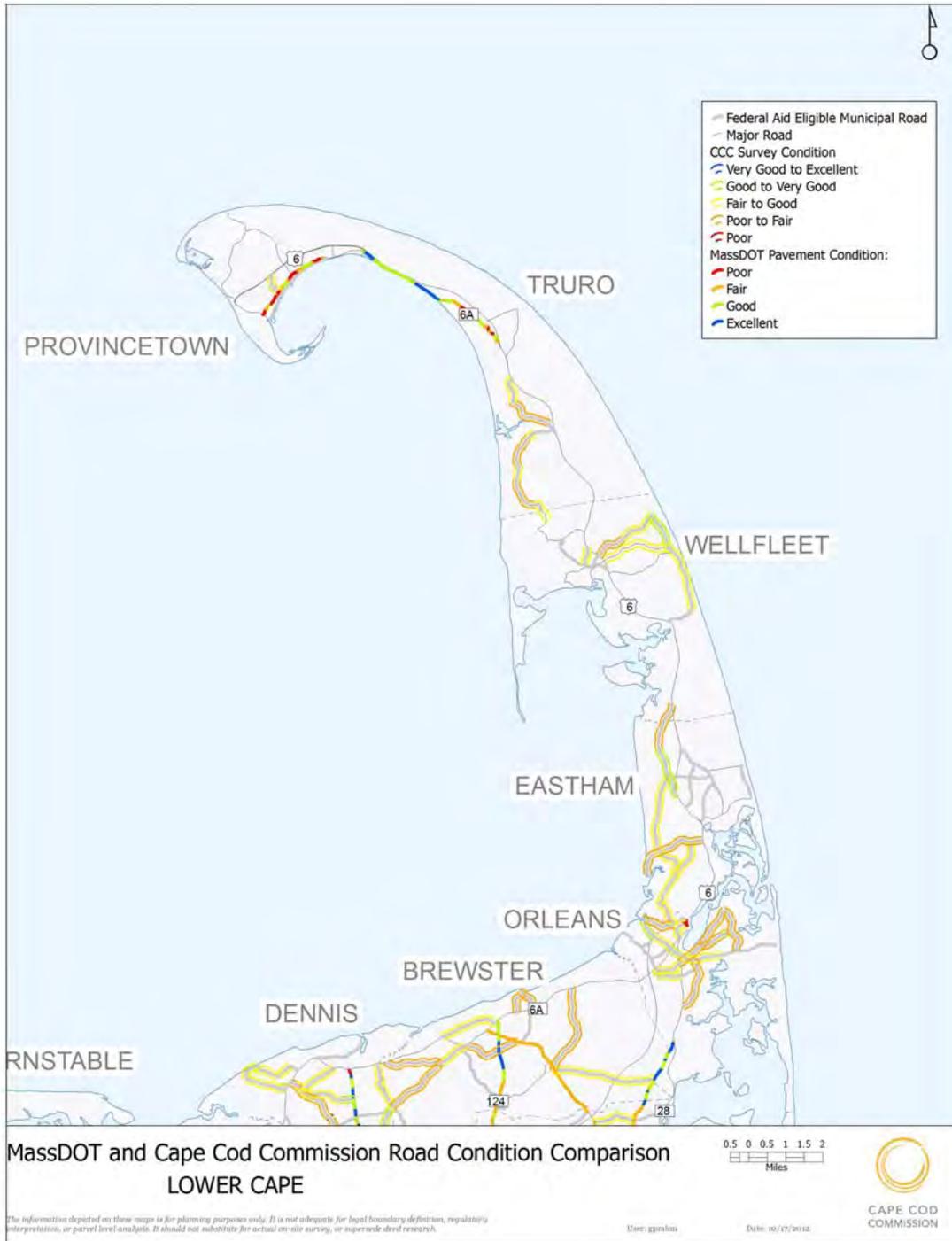


Figure 12 - MassDOT & CCC Evaluations (2006-2012): Lower Cape

1.5.3 CCC EVALUATIONS OF PAVEMENT CONDITIONS – ATR SITES

Starting in mid-summer of 2011, CCC traffic technicians were tasked with collecting pavement condition data as part of their work in setting up Automatic Traffic Recorders (ATRs). Including data collected in 2012, this yielded pavement condition data at 250 unique locations throughout the Cape’s 15 towns. Also, since a 48-hour traffic count was collected from each ATR, results include a “Weighted” pavement condition for each town. By multiplying the Annual Average Daily Traffic at each location times that locations’ observed pavement condition, we then totaled these results and divided by the sum of Annual Average Daily Traffic from that town’s ATR’s. Annual Average Daily Traffic is calculated by multiplying the appropriate MassDOT monthly adjustment factor times the observed average daily traffic over the 48 hour ATR data collection period. The following table presents town-wide averages of the pavement condition information collected at ATR sites.

Table 7 - Summary of Pavement Conditions at ATR Sites

TOWN	# of Sites	Avg. AADT	Avg. Condition	Weighted Condition
Barnstable	26	5,828	2.7	2.5
Bourne	25	5,100	3.0	3.1
Brewster	8	5,525	3.3	3.2
Chatham	11	5,518	2.8	2.6
Dennis	22	7,311	2.8	2.8
Eastham	9	4,117	3.0	2.4
Falmouth	29	6,398	3.2	3.2
Harwich	16	6,075	3.1	3.0
Mashpee	13	6,868	2.7	2.7
Orleans	14	7,321	3.1	3.0
Provincetown	7	5,187	4.0	4.1
Sandwich	24	5,960	3.2	2.9
Truro	10	5,456	2.9	2.7
Wellfleet	12	3,804	3.3	2.9
Yarmouth	24	7,792	2.8	2.8



See Table 1 for descriptions of pavement conditions (ranging from “Excellent” = 1 to “Poor”=5). Pavement conditions including comments and other ATR data for each of the 250 collection sites are presented in the appendix. The following figures are a graphical display of the individual site data for sections of Barnstable County (Upper Cape, Mid-Cape, and Lower Cape). The pavement condition at each ATR site is shown as a colored circle ranging from Blue (Very Good to Excellent) to Red (Poor).

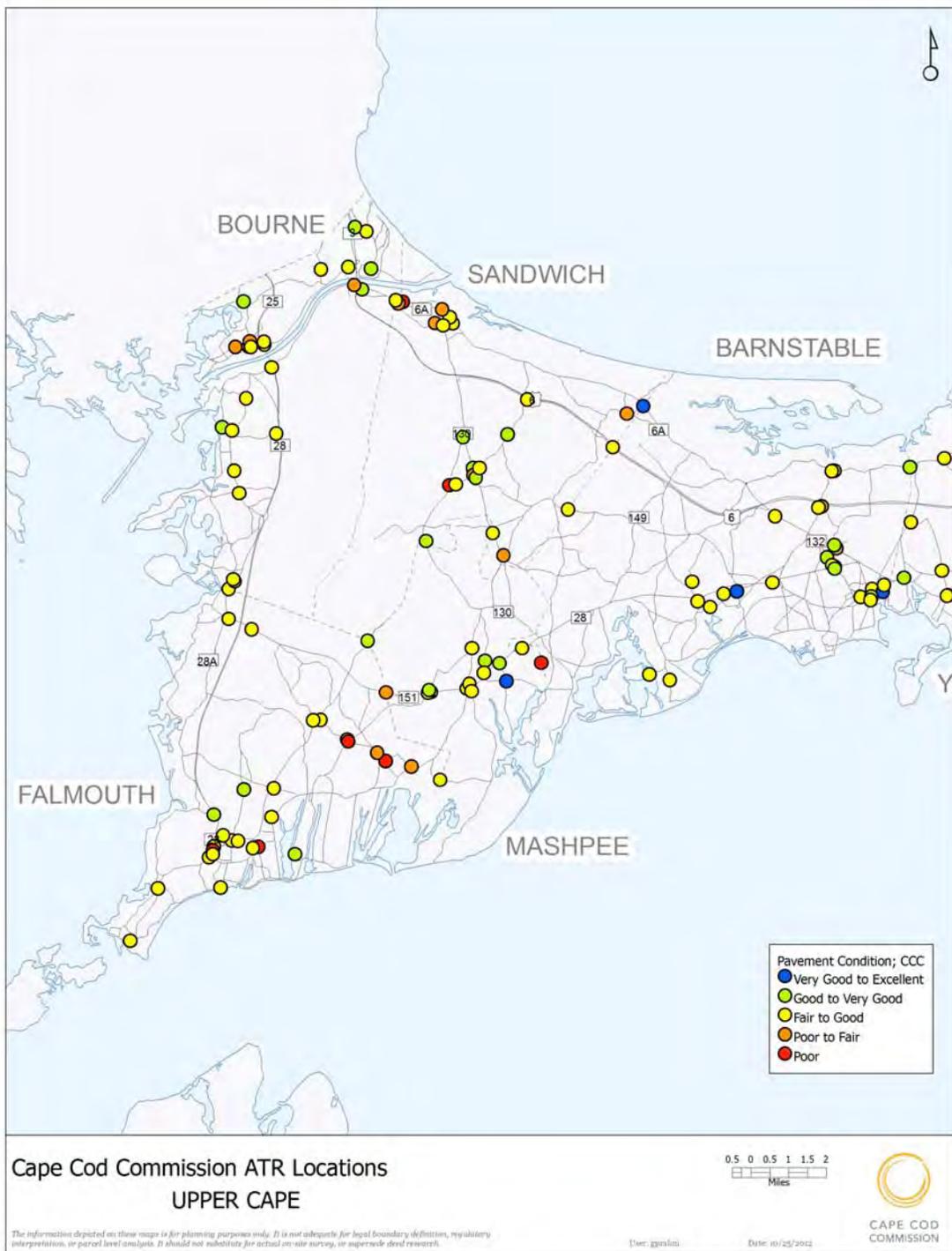


Figure 13 - 2011-2012 Pavement Conditions at ATR Locations: Upper Cape

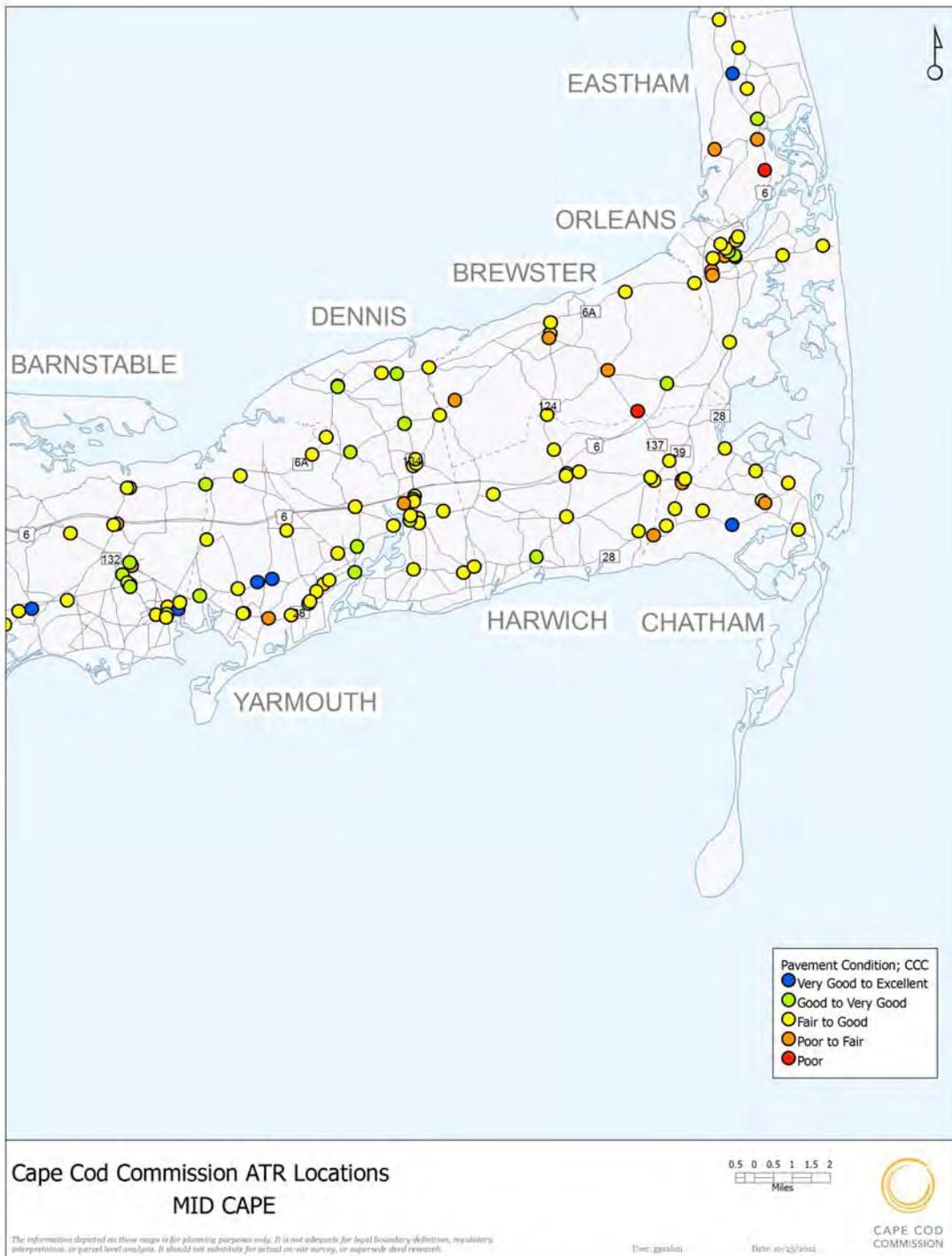


Figure 14 - 2011-2012 Pavement Conditions at ATR Locations: Mid-Cape

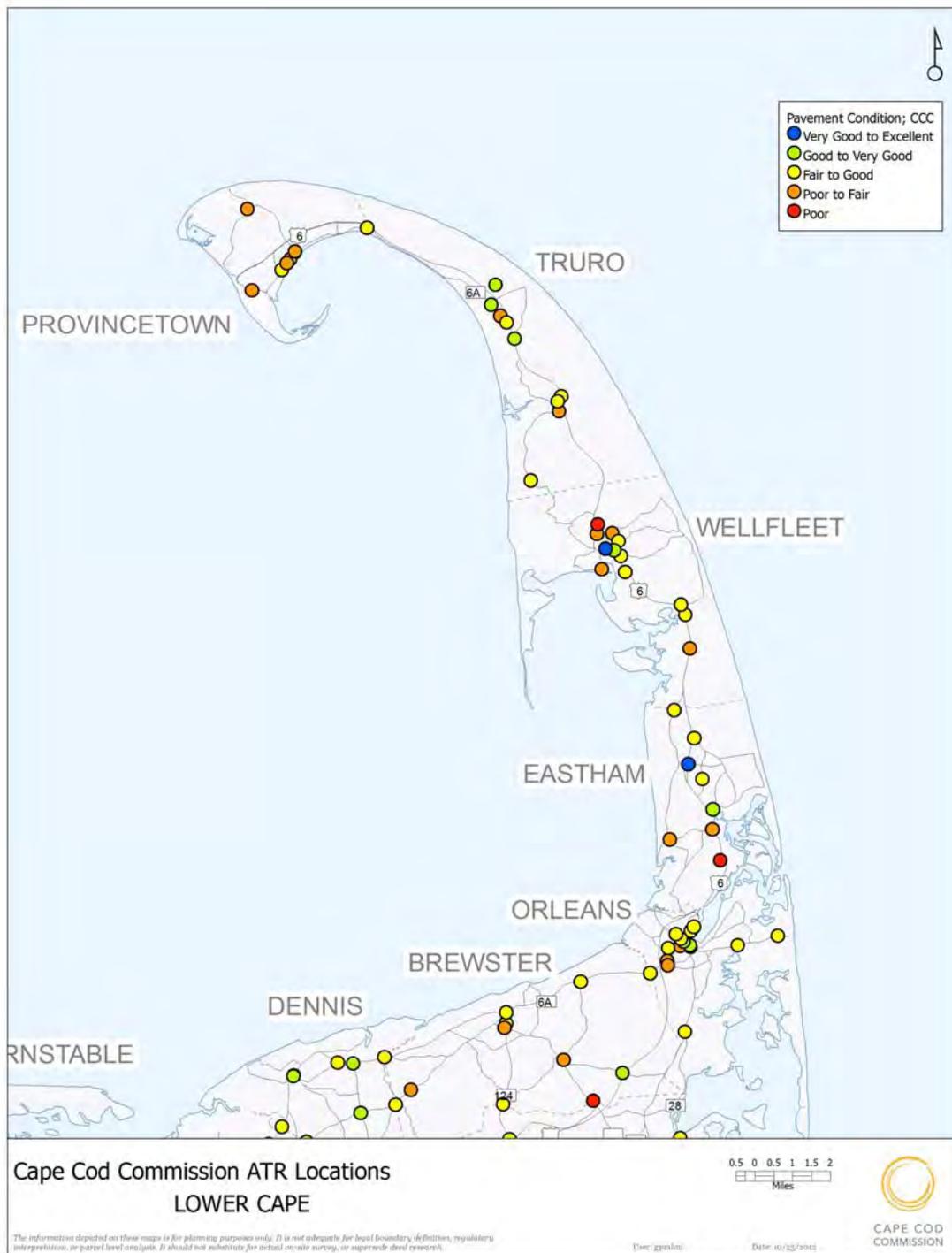


Figure 15 - 2011-2012 Pavement Conditions at ATR Locations: Lower Cape

1.5.4 MUNICIPAL EVALUATIONS OF PAVEMENT CONDITIONS

Several communities have active PMS and have provided examples of pavement condition reporting. Two of these towns (Barnstable and Sandwich) have submitted maps showing roadways with evaluations of pavement conditions. The color-coding is based on the average “Pavement Condition Index” (PCI) as described in Section 1.4.1.1, with the pavement in the best condition (highest PCI) shown in blue and the poorest condition (lowest PCI) shown in red.

The Barnstable and Sandwich PCI maps are presented in the following two figures.

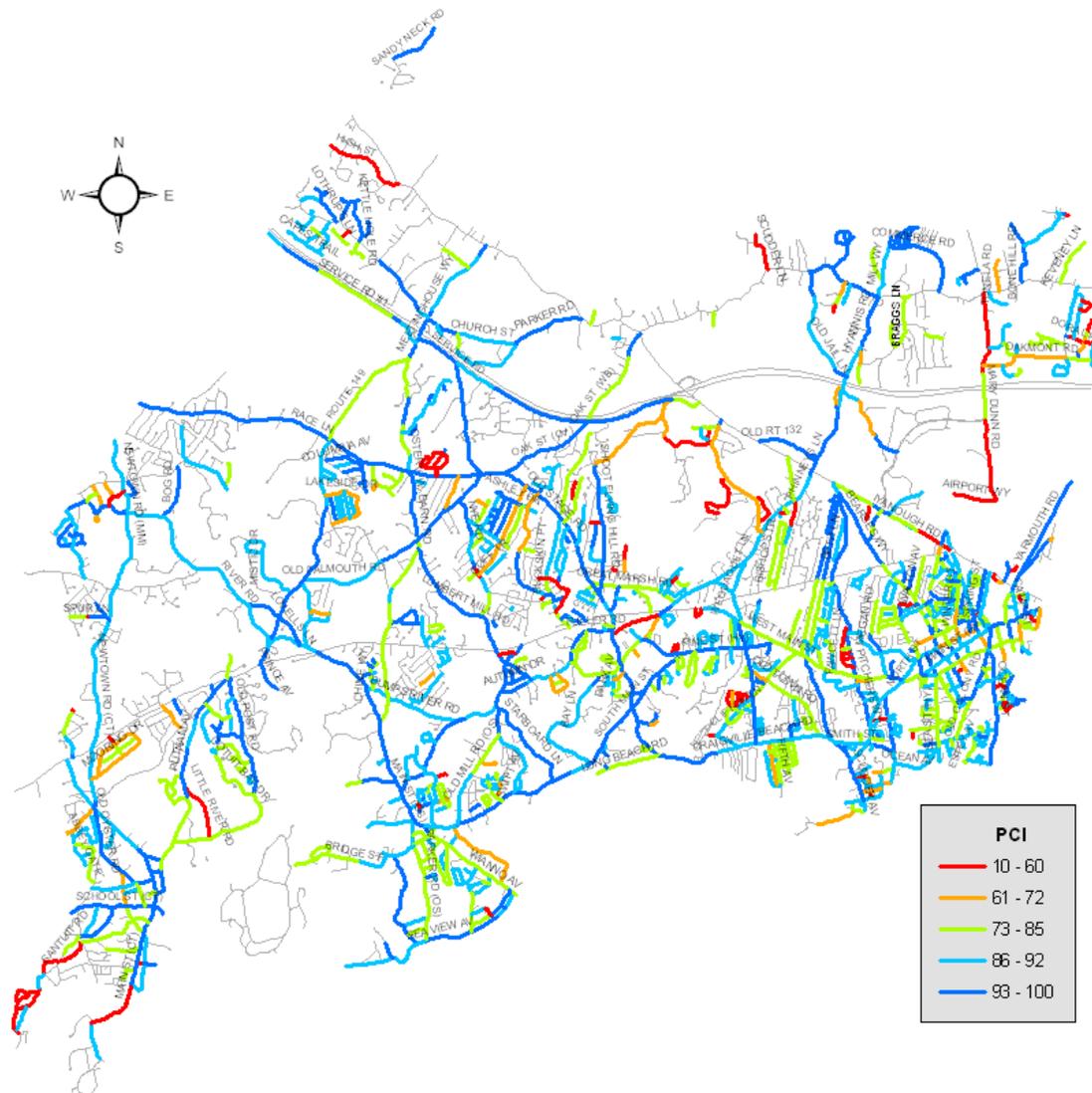


Figure 16 - Barnstable PCI Map

Source: Town of Barnstable/VHB 2009 Data

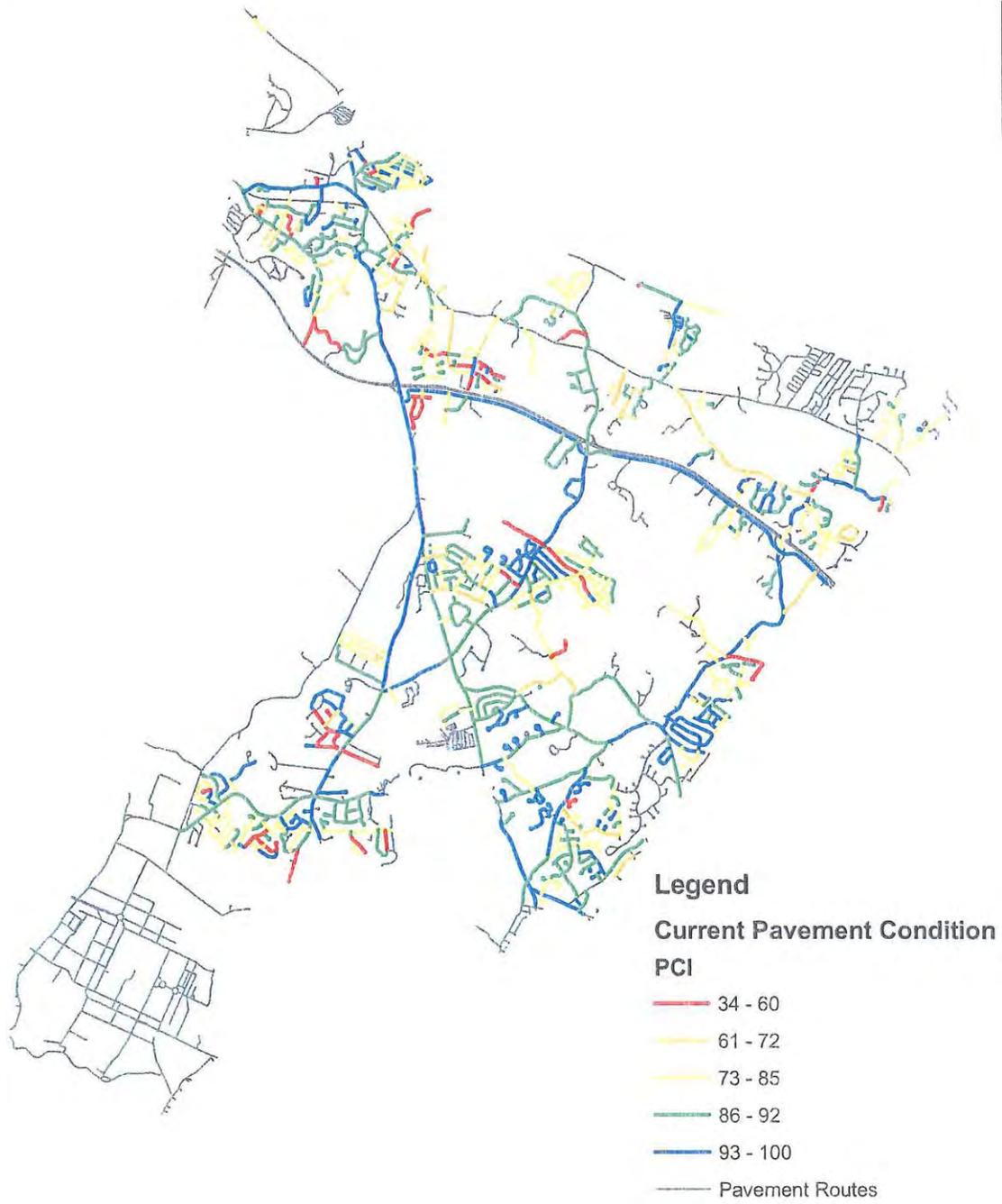


Figure 17 - Sandwich PCI Map

Source: Town of Sandwich/VHB 2005-2006 Data

1.6 RECOMMENDATIONS FOR ACHIEVING IMPROVED PAVEMENT CONDITION

The Regional Transportation Plan included an initial effort at providing a comprehensive county-wide policy for improved pavement condition. The information in this section was originally published in the 2012 RTP. By considering the additional data collected since the 2012 RTP was finalized, more detailed estimates will be available for implementation – see discussion in the next section of this report.

Based on costs estimated by the Old Colony Planning Council, improving a “Good” road to “Excellent” requires \$40,400 per mile; improving from “Fair” requires \$405,146 per mile; and improving from “Poor” requires \$697,980 per mile. Improving all of Cape Cod’s municipally-owned Federal-Aid roadways to “Excellent” requires \$118,944,832. While “Excellent” pavement is the ultimate goal of the MPO, this figure is well in excess of the financial constraints outlined in the recently-approved RTP.

A strategy is required to responsibly allocate available funding to maintaining and improving pavement condition on Cape Cod. As can be observed by the costs listed above and also demonstrated in Figure 1, allowing pavement to deteriorate to the lowest condition requires a significantly magnified cost to improve. To get closer to the MPO’s ultimate goal, resources spent on improving “Fair” pavement would result in far more miles of resulting “Excellent” pavement than directing resources to “Poor” pavement. Nevertheless, “Poor” pavement cannot be ignored. Therefore, the strategy of the Cape Cod MPO is to evenly divide investment across the lower two categories. Based on expected resources identified in the RTP, the following table lists the resulting totals of each category:

Table 8 - Change in Pavement Condition – RTP Improvement Strategy

Pavement Condition	Base Percent	Base Miles	Improvement Cost	Miles Improved	New Miles	New Percent
Excellent	26.40%	142.87		-	183.32	33.87%
Good	32.96%	178.38		-	178.38	32.96%
Fair	26.36%	142.66	\$ 10,367,772	25.59	117.07	21.63%
Poor	14.28%	77.28	\$ 10,367,772	14.85	62.43	11.54%
Totals	100.00%	541.19	\$ 20,735,545	40.44	541.19	100%

Implementation of this strategy results in overall improvement of pavement quality. The percentage of “Excellent” municipally-owned Federal-Aid roadways increases from 26 to 34 percent. “Good” roadways are maintained at 33%. “Fair” roadways are reduced from 26 to 22%, and “Poor” roadways are reduced from 14 to 12 percent.

1.7 CONCLUSION/RECOMMENDATIONS FOR PMS ENHANCEMENT

During FY 2013, Cape Cod Commission staff will continue advance PMS activities throughout the 15 towns of Barnstable County. Efforts will continue such as:

- Identify individual towns’ methods for pavement condition evaluation and programming for improvements
- Identify “gaps” in pavement condition information on Municipally-owned Federal Aid eligible roadways – and – prioritize and implement CCC data collection activities on these roadways
- Improve CCC skills in performing pavement evaluations
- Analyze local communities’ bid prices to develop Cape-specific improvement costs of various pavement conditions



CAPE COD
COMMISSION

APPENDIX – Cape Cod Commission Pavement Condition Survey Data

Cape Cod Commission - Pavement Condition Surveys

Town	Barnstable		
Road	Cedar St		
Beginning_Ending	Rt 149 -- to end		
Date	8/9/2012	Observer	PL

Condition	Comment	Transition
Poor to Fair	rutting, weathering, stripping, edge loss	Willow St
Poor to Fair	longitudinal cracking, edge drop off, potholes	25' East of Kettlehole Rd
Poor	patches failing, block cracking, potholes	75' West of Kettlehole Rd
Poor to Fair	serious wear, patches failing	end

Town	Barnstable		
Road	Church St (W. Barnstable)		
Beginning_Ending	Parker Rd -- Rt 149		
Date	8/9/2012	Observer	PL

Condition	Comment	Transition
Fair to Good	wearing, drainage issue, some cracks	Pine St.
Poor to Fair	pothole, some rutting	Rt 149

Town	Barnstable		
Road	Craigville Beach Rd		
Beginning_Ending	Smith St. -- Strawberry Hill Rd		
Date	8/9/2012	Observer	LAM

Condition	Comment	Transition
Fair to Good	minor crack seal	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		0.1 mi Sea St
Poor to Fair	patches, rutting	Ocean Ave
Fair to Good		0.7 mi., Marston Ave
Poor to Fair	longitudinal cracking, rutting	1.0 mi., Scudder Av/Smith St
Poor to Fair	longitudinal pipe patch	1.3 mi., Craigville Beach Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Very Good to Excellent	new pavement	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, patches, longitudinal cracks	Rt 6A

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occ. cracking	Rt 28
Poor to Fair	potholes, spalling, long. cracking	Ost.-W.Barnstable Rd

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	Potholes, many patches, a lot of crack seal	0.6 mi., Rt 28
Poor to Fair	patches & rutting	Rt 132
Fair to Good		Rt 6A

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, rutting, crack seal	1.0 mi., Service Rd
Fair to Good	minor roughness, patches	1.9 mi., Old Stage Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	some rutting, roughness	0.8 mi.

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good		

Cape Cod Commission - Pavement Condition Surveys

Town	Barnstable		
Road	Old Falmouth Rd		
Beginning_Ending	Osterville-W. Barnstable Rd -- Rt 149		
Date	8/8/2012	Observer	LAM

Condition	Comment	Transition
Poor to Fair	potholes, rutting, patches	0.4 mi., Flint St
Fair to Good	rough pavement	1.2 mi., Rt 149

Town	Barnstable		
Road	Old Stage Rd		
Beginning_Ending	Race Ln -- Service Rd		
Date	8/8/2012	Observer	LAM

Condition	Comment	Transition
Fair to Good	occ. patch, minor cracking.	

Town	Barnstable		
Road	Osterville-W. Barnstable Rd.		
Beginning_Ending	Rt 149 -- Rt 28		
Date	8/8/2012	Observer	LAM

Condition	Comment	Transition
Poor to Fair	edge raveling, potholes, crack seal	.7 mi., Woodside Dr
Good to Very Good		1.0 mi., Race Ln
Fair to Good	crack seal, minor cracking	Old Falmouth Rd
Poor to Fair	patches, potholes, edge raveling	2.7 mi., Rt 28

Town	Barnstable		
Road	Parker Rd (W. Barnstable)		
Beginning_Ending	Rt 6A -- Church St		
Date	8/9/2012	Observer	PL

Condition	Comment	Transition
Poor to Fair	uneven/rutting some cracks, repairs	

Cape Cod Commission - Pavement Condition Surveys

Town	Barnstable		
Road	Parker Road (Osterville)		
Beginning_Ending	Main St -- Sea View Ave		
Date	8/8/2012	Observer	LAM

Condition	Comment	Transition
Fair to Good	occasional patches	

Town	Barnstable		
Road	Pond St, Bumps River Rd		
Beginning_Ending	Main St (Osterville) -- Five Corners Rd		
Date	9/18/2012	Observer	LM

Condition	Comment	Transition
Fair to Good	occ. patches	Bumps River Rd
Poor to Fair	potholes	Old Mill Rd
Fair to Good		Five Corners Rd

Town	Barnstable		
Road	Race Ln		
Beginning_Ending	Sandwich TL to Old Stage Rd		
Date	9/11/2011	Observer	PNWL

Condition	Comment	Transition
Fair to Good	minor linear crack	Trotters Ln
Poor to Fair	serious wear, utility patch	Mill Race Rd
Fair to Good	wear	Rt 149
Good to Very Good	better here	Evergreen
Fair to Good	more wear & crack sealing (linear)	Osterville-W.Barnstable Rd
Poor to Fair	more wear & minor linear cracking	Old Stage Rd

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occasional patches	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, rutting	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Very Good to Excellent	new pavement	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	crack seal, minor rutting	

Cape Cod Commission - Pavement Condition Surveys

Town	Barnstable		
Road	Wakeby Rd, River Rd, Lovell's Ln		
Beginning_Ending	Sandwich TL/Asa Meiggs Rd -- Rt 149		
Date	9/4/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	rutting, crack seal, longitudinal cracks	Newtown Rd
Poor to Fair	longitudinal cracking, crack seal, rutting	River Rd
Poor to Fair	rutting potholes, edge raveling	Lovell's Ln
Fair to Good	weathering	Rt 149

Town	Barnstable		
Road	Winter St		
Beginning_Ending	Barnstable Rd -- Main St (Hyannis)		
Date	9/18/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	rutting, continuous trench patch	Stevens St
Fair to Good	weathering	Main St

Town	Bourne		
Road	Bournedale Rd & Head of the Bay Rd		
Beginning_Ending	Rt 6 Scenic - Wareham TL		
Date	9/4/2012	Observer	LM

Condition	Comment	Transition
Fair to Good	weathering	.5 mi
Poor to Fair	edge raveling, alligator cracking, long. cracking	Head of the Bay Rd
Fair to Good	weathering	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	cracking	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good		500 ft. N of Clay Pond Rd
Fair to Good	cracking	Rt 28A

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minor cracking	Summer St
Very Good to Excellent	new pavement	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minor cracking	Red Brook Harbor Rd
Fair to Good	crack seal	Shore Rd

Cape Cod Commission - Pavement Condition Surveys

Town	Bourne		
Road	Shore Rd & Trowbridge Rd		
Beginning_Ending	Red Brook Harbor Rd -- Bourne Rotary		
Date	8/23/2012	Observer	LM

Condition	Comment	Transition
Fair to Good	crack seal	Barlows Landing Rd
Fair to Good	minor weathering	Bourne Rotary

Town	Brewster		
Road	Foster Rd		
Beginning_Ending	Rt 6A -- Point of Rocks Rd		
Date	9/6/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	potholes, cracks, edge raveling	

Town	Brewster		
Road	Freeman's Way		
Beginning_Ending	Rt 39 -- Rt 137		
Date	9/6/2012	Observer	LM

Condition	Comment	Transition
Fair to Good	occ. crack seal	

Town	Brewster		
Road	Lower Rd		
Beginning_Ending	Rt 6A (east) -- Rt 6A (west)		
Date	9/6/2012	Observer	LM

Condition	Comment	Transition
Fair to Good	weathering, minor cracking	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, edge raveling	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	rutting, edge raveling, crack seal, patches	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	lots of crack sealing, unreported holes, occasional cracking	Stony Brook Rd (mile 2.0)
Fair to Good	large patches, crack seal	Rt 6A (mile 2.8)

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occ. crack seal	Elbow Pond Dr.
Poor to Fair	potholes, crack seal	Harwich TL

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	cracks, edge raveling, wear	A.P. Newcomb Rd (0.9 mi)
Poor to Fair	wheel path cracking, wear, edge raveling	Setucket Rd (1.5 mi)

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, wear, rutting, occ. patches	Rt 124
Poor to Fair	wear, crack seal, transverse cracking, patches	Rt 137 (1.5 mi)

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occasional patches, minor cracking	Rt 28 (mile 1.4)

Cape Cod Commission - Pavement Condition Surveys

Town	Dennis		
Road	Airline Rd		
Beginning_Ending	Rt 134 to Rt 6A		
Date	9/19/2011	Observer	LAM

Condition	Comment	Transition
Poor to Fair	potholes, a lot of crack seal	Old Chatham Rd
Good to Very Good	rare patch	200' before Setucket
Fair to Good	crack seal	Setucket Rd (W)
	(Gap for Setucket Road)	
Fair to Good	long. cracks, minor edge ravel, patches, wear	from Setucket (E) to Rt 6A (2.9 mi)

Town	Dennis		
Road	Bayview Rd, Horsefoot Path		
Beginning_Ending	Shore Dr -- Beach St		
Date	9/6/2012	Observer	LM

Condition	Comment	Transition
Fair to Good		Horsefoot Path
Fair to Good	occ. crack seal	Beach St

Town	Dennis		
Road	Beach St, New Boston Rd		
Beginning_Ending	Horsefoot Path -- Rt 6A		
Date	9/6/2012	Observer	LM

Condition	Comment	Transition
Fair to Good		New Boston Rd
Good to Very Good		Rt 6A

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		Rt 134
Fair to Good	occasional patches	Harwich TL

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good		Perkins Way
Fair to Good	surface treated, rough	Old Bass River Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		

Cape Cod Commission - Pavement Condition Surveys

Town	Dennis		
Road	Old Bass River Rd		
Beginning_Ending	Highbank Rd to Rt 6A		
Date	9/11/2011	Observer	PNWL

Condition	Comment	Transition
Fair to Good	more wear, no cracks	Town Hall
Fair to Good	wear still no cracks	begin Old Bass River, for w/Main (mile 1)
Poor to Fair	stress, dark patches leaner at bridge ends	bridge
Fair to Good	some unevenness	Bob Crowell Rd
Fair to Good	dips near drainage catch basins	291 Old Bass River Rd
Fair to Good	wear	Old Chatham Rd
Fair to Good	patch sinking, transversal (across width of roadway, utility?)	(mile 3)
Poor to Fair	rutting - bumpy section	Phyllis Dr
Poor to Fair	transversal cracking	Capt. Walsh Rd + 150 ft
Poor	transversal cracking in parallel path NB side	150 ft before Blackberry Ln
Poor to Fair	transversal & linear cracking at seam	Blackberry Ln
Poor to Fair	utility patch failing	Rema's Way
Poor to Fair	wear	Rt 6A (mile 5)

Town	Dennis		
Road	Old Chatham Rd		
Beginning_Ending	Harwich TL -- Rt 134; Rt 134 -- Old Bass River		
Date	9/6/2012	Observer	LM

Condition	Comment	Transition
Fair to Good	surface treated, rough	Rt 134
Fair to Good	surface treated, rough	Old Bass River Rd

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	surface treated, rough	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		Nobscusset
Fair to Good		Shore Dr
Fair to Good		Bayview Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occ. crack seal	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	crack sealing - old, fair	Boat Meadow Rd
Fair to Good	good	Herring Brook Rd
Fair to Good	good	Cole Rd
Fair to Good	good	Field Rd
Fair to Good	good	Oak/Massasoit

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, potholes	Aspinet Rd
Good to Very Good		Rt 6

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, rutting	beach lot

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	patches, cracks	1.7 mi.

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	crack seal; occ.: filled pothole, edge cracking, transverse; minor rutting	Sandwich Rd (mile 3.1)

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, edge raveling	Garnet Av
Poor to Fair	longitudinal cracking, rutting	Bourne TL

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, patches	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, potholes	0.3 mi., (Grand Av)
Fair to Good	occasional patches	Little Rock Av
Good to Very Good		Rt 28

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	cracks, rutting, patches	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	crackseal	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	spalling, crack seal, potholes, rutting	1.3 mi., Grand Av
Fair to Good	crack seal	2.1 mi

Cape Cod Commission - Pavement Condition Surveys

Town
Road
Beginning_Ending
Date **Observer**

Condition	Comment	Transition
Poor to Fair	patches, potholes, cracking	

Town
Road
Beginning_Ending
Date **Observer**

Condition	Comment	Transition
Poor to Fair	edge raveling, crackseal	0.4 mi.
Very Good to Excellent	new pavement	1.5 mi., Currier Rd/Hayway Rd
Good to Very Good		1.9 mi., Carriage Shop Rd
Poor to Fair	edge raveling, patches	3.0 mi., Old Meetinghouse (east)
Poor to Fair	edge raveling, patches	3.7 mi., Rt 28

Town
Road
Beginning_Ending
Date **Observer**

Condition	Comment	Transition
Fair to Good		Nashawena St
Fair to Good		Curley Blvd
Poor to Fair	rutting, potholes, edge raveling	Chester St

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, longitudinal cracking, weathering	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, edge raveling	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, crack seal	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good	occ. patch	Millfield St
Fair to Good	minor rutting, occ. patches	Ransom Rd
Fair to Good	crack seal	Place Rd
Poor to Fair	potholes, crack seal	Palmer Av

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	crack seal	

Cape Cod Commission - Pavement Condition Surveys

Town	Falmouth		
Road	Thomas Landers Rd		
Beginning_Ending	Sandwich Rd to Rt 28A		
Date	9/12/2011	Observer	LAM

Condition	Comment	Transition
Poor	Lots of Crack seal, edge cracking, potholes	Turner Rd (0.2 mile)
Fair to Good	Crack seal, occasional patch	Blacksmith Shop Rd
Poor to Fair	cracks, crack sealing pot holes	Technology Park Dr
Poor to Fair	crack seal, rutting, potholes	Rt 28
Fair to Good	minor cracking	Rt 28A (mile 3.0)

Town	Falmouth		
Road	W. Falmouth Hwy		
Beginning_Ending	Rt 28 -- Old Dock Rd		
Date	8/23/2012	Observer	LM

Condition	Comment	Transition
Fair to Good		

Town	Falmouth		
Road	Water St		
Beginning_Ending	Woods Hole Rd -- Albatross St		
Date	8/23/2012	Observer	LM

Condition	Comment	Transition
Fair to Good		

Town	Harwich		
Road	Bank St		
Beginning_Ending	Main St -- Rt 28		
Date	8/13/2012	Observer	LAM

Condition	Comment	Transition
Fair to Good	Patches	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good	occ. crack seal	Old Chatham Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occasional patches	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	Crack seal, patches	0.8 miles
Fair to Good		Chase St
Poor to Fair		Dennis TL

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occ. crack seal	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	weathering, occ. patch	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occasional patches, minor cracking, crack sealing	Rt 39 (mile 0.8)
Good to Very Good	rare patch	Rt 124 (mile 3.1)
Good to Very Good	rare patch	Main St (mile 5.3)

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good		Mashpee Rotary

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	Cracking	Red Brook Rd

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minor rutting	0.7 mi. Old Barnstable Rd
Fair to Good		1.8 mi., Rt 151
Good to Very Good		2.0 mi.
Fair to Good		2.5 mi., Falmouth TL

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minor long. cracking, crack seal	1.7 mi., Great Neck Rd N

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	transverse cracks, rutting, crack seal	Champlain Rd
Poor to Fair	crack seal, spalling	Beach Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	occ. crack seal	

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minor rutting	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good		Chickadee Ln
Poor to Fair	rutting, crack seal	Tonset Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minor weathering	Finlay Rd
Fair to Good	occ. patch	Rt 28

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal, rutting, weathering	

Cape Cod Commission - Pavement Condition Surveys

Town	Orleans		
Road	Rock Harbor Rd		
Beginning_Ending	Bridge Rd -- harbor parking lot		
Date	9/12/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	rutting, cracks, crack seal	

Town	Orleans		
Road	Rock Harbor Rd & Main St		
Beginning_Ending	Rock Harbor to Beach Rd		
Date	9/9/2011	Observer	LAM

Condition	Comment	Transition
Good to Very Good	first 50' fair near Rock Harbor	Rt 6 (mile 0.5)
Fair to Good	crack sealing	Locust Rd (mile 0.8)
Fair to Good	wear near Rt 6A intersection	Rt 6A
Good to Very Good		Rt 28 (mile 1.4)
Fair to Good	minor rutting, patches	Tonset Rd
Fair to Good	crack sealing	Beach Rd/Barley Neck Rd (mile 2.6)

Town	Orleans		
Road	Tonset Rd		
Beginning_Ending	Rt 28 -- Brick Hill Rd		
Date	9/12/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	crack seal, rutting	Main St
Poor to Fair	patches, rutting, crack seal	Brick Hill Rd

Cape Cod Commission - Pavement Condition Surveys

Town	Provincetown		
Road	Shank Painter Rd		
Beginning_Ending	Rt 6 to Bradford St (Rt 6A)		
Date	9/16/2011	Observer	BCS

Condition	Comment	Transition
Fair to Good	poor ride quality / patches	Stop & Shop
Good to Very Good		Police Station
Poor to Fair	some failed pavement	at Police Station
Fair to Good	better ride quality	Bradford St

Town	Sandwich		
Road	Asa Meiggs Rd		
Beginning_Ending	Cotuit Rd -- Barnstable TL/Wakeby Rd		
Date	9/4/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	rutting, crack seal	

Town	Sandwich		
Road	Boardley Rd, Harlow Rd		
Beginning_Ending	Farmersville Rd -- Cotuit Rd		
Date	9/4/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	cracks, spalling, crack seal	Harlow Rd
Poor to Fair	potholes, crack seal, rutting, longitudinal cracks	Madaket Way
Fair to Good	construction at intersection	Cotuit Rd

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, spalling, longitudinal cracking	Service Rd
Fair to Good	occ. cracking	Popple Bottom Rd
Poor to Fair	Edge raveling, rutting, crack seal	August Way
Fair to Good		Farmersville

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minimal weathering	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		Vista Ln
Poor to Fair	edge raveling, crack seal	Old County Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	edge raveling, crack seal, rutting	Chase Rd
Poor to Fair	rutting, potholes, crack seal	High St/ Barnstable TL

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good		Cotuit Rd
Very Good to Excellent		Chapaquoit Rd
Very Good to Excellent		Service Rd
Fair to Good		N of Rt 6 WB Ramps
Very Good to Excellent		Rt 6A

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	potholes, crack seal	Barkman Ct
Fair to Good		Rt 6A east end

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good		500' S of Cotuit Rd
Fair to Good		500' S of Quaker Meetinghouse Rd
Good to Very Good		Mashpee/Barnstable TL
Poor		Rt 28

Cape Cod Commission - Pavement Condition Surveys

Town	Truro		
Road	Castle Rd		
Beginning_Ending	Rt 6 (S) -- Rt 6 (N)		
Date	9/12/2012	Observer	LM

Condition	Comment	Transition
Poor to Fair	cracks, rutting	Corn Hill Rd
Fair to Good	minor cracking	Rt 6 (N end)

Town	Truro & Wellfleet		
Road	Old County Rd		
Beginning_Ending	Pamet Point Rd (Wellfleet) to Depot St (Truro)		
Date	9/21/2011	Observer	BCS

Condition	Comment	Transition
Fair to Good	fair, unsealed cracks	Pamet Pt (0.6 mi)
Poor to Fair	alligator cracks, fair	(1.1 mi)
Fair to Good	fair	(1.8 mi)
Poor to Fair	fair	(2.8 mi)
Fair to Good	good	Depot St (3.0 mi)

Town	Wellfleet		
Road	Gross Hill Rd		
Beginning_Ending	Ocean View Dr. -- Rt 6		
Date	9/12/2012	Observer	LM

Condition	Comment	Transition
Fair to Good	weathering	1.0 mi.
Poor to Fair	crack seal, edge raveling, rutting	Rt 6

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	fair - patches & ride quality poor	(0.9 mi)
Fair to Good	good	Cahoon Hollow Rd
Good to Very Good	good, some crack repairs	Gross Hill Rd

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Poor to Fair	crack seal	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		

Cape Cod Commission - Pavement Condition Surveys

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Good to Very Good	surface treated	

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	minor weathering	.4 mi - roundabout
Poor to Fair	crack seal, rutting	2.6 mi., Rt 28
Fair to Good		3.4 mi. end of Berry Ave

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good	weathering	Salt Box Rd
Poor to Fair	spalling	Great Western Rd
Fair to Good		Bass River

Town
 Road
 Beginning_Ending
 Date Observer

Condition	Comment	Transition
Fair to Good		

Cape Cod Commission - Pavement Condition Surveys

Town	Yarmouth		
Road	Regional Ave & Sheridan Rd		
Beginning_Ending	Station Ave -- Highbank Rd		
Date	8/13/2012	Observer	LAM

Condition	Comment	Transition
Fair to Good		.4 mi, N. Main St
Fair to Good		.5 mi., Highbank

Town	Yarmouth		
Road	West Yarmouth Rd		
Beginning_Ending	Rt 6A to Rt 28		
Date	9/11/2011	Observer	PNWL

Condition	Comment	Transition
Fair to Good	middle of lanes more wear	White Rock Rd
Fair to Good	Wear w/short linear crack near lane seam	Devonshire Ln
Poor to Fair	cracking	RR xing
Poor	wear, humps - transversal, raveling & crack sealing	before Hwy bridges
Poor to Fair	wear but not cracks	after Hwy bridges
Poor	wear, raveling	Old Townhouse Rd
Poor to Fair	wear, util. patch repair sunken slightly	Buck Island Rd
Poor to Fair	wear (potholes at Rt 28)	Rt 28

Town	Yarmouth		
Road	Winslow Gray Rd		
Beginning_Ending	Buck Island Rd -- Long Pond Dr		
Date	8/13/2012	Observer	LAM

Condition	Comment	Transition
Fair to Good	Crack seal, minor rutting	



**APPENDIX –
Cape Cod Commission ATR Location Data**

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Bourne & Falmouth	Rt 28A @ Bour/Falm TL	7/17/2012 7/19/2012	10,449 7,900	3	Fair to Good
Site Code: 20123	X -70.6107 Y 41.6577			Weathering, Cracks and Repairs	
Bourne & Falmouth	Rt 28A @ Bour/Falm TL	7/18/2011 7/20/2011	10,368 7,900	3	Fair to Good
Site Code: 20123	X -70.6107 Y 41.6577			Repairs are ok, some longitudinal cracking, and rutting	
Bourne	Rt 28A N of County Rd	7/17/2012 7/19/2012	5,786 4,400	3	Fair to Good
Site Code: 20124	X -70.6077 Y 41.6605			cracks and repairs	
Bourne & Plymouth	Rt 3A S of Bour/Plym TL	7/17/2012 7/19/2012	7,709 5,900	2	Good to Very Good
Site Code: 20125	X -70.5439 Y 41.7966				
Bourne & Plymouth	Rt 3A S of Bour/Plym TL	7/18/2011 7/20/2011	8,098 6,200	4	Poor to Fair
Site Code: 20125	X -70.5439 Y 41.7966			Longitudinal, transverse, edge, and alligator cracking	
Bourne & Plymouth	Rt 3A S of Bour/Plym TL	7/12/2011 7/14/2011	7,846 6,000	4	Poor to Fair
Site Code: 20125	X -70.5439 Y 41.7966			transverse, longitudinal, edge, and alligator cracking	
Bourne	Rt 6 Bypass E of St. Margaret	7/17/2012 7/19/2012	9,342 7,100	4	Poor to Fair
Site Code: 20127	X -70.6060 Y 41.7509			Linear and transverse cracking	
Bourne	Rt 6&28 W of Belmont Circle	7/6/2011 7/8/2011	20,016 15,200	4	Poor to Fair
Site Code: 7175	X -70.5993 Y 41.7510			Transverse, longitudinal, and edge cracking	
Bourne & Sandwich	Rt 6A @ Bour/Sand TL	7/17/2012 7/19/2012	13,600 10,300	3	Fair to Good
Site Code: 20133	X -70.5233 Y 41.7682			Rutting	
Bourne & Sandwich	Rt 6A @ Bour/Sand TL	7/18/2011 7/20/2011	13,607 10,300	4	Poor to Fair
Site Code: 20133	X -70.5233 Y 41.7682			Transverse cracking, rutting, and crumbling at edges	

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Bourne	Adams St	5/21/2012	5,930	2	Good to Very Good
Site Code: 20815	S of Sandwich Rd	5/24/2012	5,700		
X	-70.5405	Y	41.7725		
Bourne	Adams St	5/16/2012	4,306	2	Good to Very Good
Site Code: 20815	S of Sandwich Rd	5/18/2012	4,100		
X	-70.5405	Y	41.7725		
Bourne	Andy Olivia Rd	6/27/2012	1,631	3	Fair to Good
Site Code: 21277	S of Rt 6 Scenic Hwy	6/29/2012	1,500		Linear and transverse cracking
X	-70.5911	Y	41.7517		
Bourne	Church Ln	7/12/2011	2,072	3	Fair to Good
Site Code: 20814	N of Rt 6 Scenic	7/14/2011	1,600		slight cracking, good
X	-70.5475	Y	41.7813		
Bourne	Clay Pond Rd	6/12/2012	4,772	3	Fair to Good
Site Code: 20108	W of Rt 28	6/14/2012	4,200		Linear Cracks and Repairs
X	-70.5854	Y	41.7174		
Bourne	County Rd	8/21/2012	4,780	3	Fair to Good
Site Code: 20111	N of Rt 28A	8/23/2012	3,600		Rutting
X	-70.6084	Y	41.6614		
Bourne	County Rd	6/12/2012	3,651	3	Fair to Good
Site Code: 20109	S of Barlows Landing Rd	6/14/2012	3,200		Cracking
X	-70.6050	Y	41.6945		
Bourne	County Rd	7/18/2011	3,748	3	Fair to Good
Site Code: 20930	N of Clay Pond Rd	7/20/2011	2,800		Some minor cracking, repairs are good besides this
X	-70.6082	Y	41.7189		
Bourne	County Rd	6/12/2012	3,893	3	Fair to Good
Site Code: 20110	S of Old Dam Rd	6/14/2012	3,500		Linear Cracking
X	-70.6008	Y	41.7311		
Bourne	County Rd	7/17/2012	3,682	3	Fair to Good
Site Code: 20112	S of Valley Bars Rd	7/19/2012	2,800		Linear Cracks and Patching
X	-70.6073	Y	41.7033		

TOWN	ROUTE & LOCATION	Begin Date:		ADT AADT	Pavement Conditions	
		End Date:				
Bourne	Head of the Bay Rd	6/27/2012	5,329	4	Poor to Fair	cracking
Site Code: 20114	N of Belmont Circle	6/29/2012	4,700			
	X -70.5986 Y 41.7530					
Bourne	Head of the Bay Rd	7/12/2011	4,682	2	Good to Very Good	
Site Code: 20113	E of Plymouth Ln	7/14/2011	3,600			
	X -70.6016 Y 41.7684					
Bourne	Herring Pond Rd	7/12/2011	2,264	3	Fair to Good	longitudinal cracking
Site Code: 20769	N of Bournedale Rd	7/14/2011	1,700			
	X -70.5615 Y 41.7804					
Bourne	Meetinghouse Ln	7/17/2012	7,584	2	Good to Very Good	
Site Code: 20115	W of Old Plymouth Rd	7/19/2012	5,800			
	X -70.5360 Y 41.7806					
Bourne	Meetinghouse Ln	7/12/2011	7,602	3	Fair to Good	some longitudinal cracking, but cracks are all covered; one patch but in good condition
Site Code: 20115	W of Old Plymouth Rd	7/14/2011	5,800			
	X -70.5360 Y 41.7806					
Bourne	Nightingale Pond Rd	6/27/2012	1,818	3	Fair to Good	weathering, linear cracking
Site Code: 20135	N of Scenic Hwy	6/29/2012	1,600			
	X -70.5913 Y 41.7528					
Bourne	Old Bridge Rd	6/27/2012	789	3	Fair to Good	Linear Cracking and Patching
Site Code: 21276	S of Belmont Circle	6/29/2012	700			
	X -70.5980 Y 41.7509					
Bourne	Old Plymouth Rd	7/6/2011	4,006	3	Fair to Good	Edge cracking
Site Code: 7121	S of Norris Rd	7/8/2011	3,000			
	X -70.5380 Y 41.7948					
Bourne	Sandwich Rd	6/12/2012	16,644	4	Poor to Fair	Cracks on sides and Transverse Cracking
Site Code: 7118	W of Sagamore Bridge	6/14/2012	14,800			
	X -70.5446 Y 41.7742					
Bourne	Shore Rd	7/6/2011	5,515	2	Good to Very Good	
Site Code: 7120	N of Beach St	7/8/2011	4,200			
	X -70.6134 Y 41.7200					

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Bourne	Trowbridge Rd	6/12/2012	8,671	3	Fair to Good
Site Code: 20141	W of Bourne Rotary	6/14/2012	7,700	Cracks and repairs	
X	-70.5876	Y	41.7429		
Bourne	Trowbridge Rd	7/18/2011	7,159	3	Fair to Good
Site Code: 20141	W of Bourne Rotary	7/20/2011	5,400	Some minor cracking, repairs look good besides this	
X	-70.5876	Y	41.7429		
Sandwich	Rt 130	7/12/2011	3,271	4	Poor to Fair
Site Code: 20942	S of Rt 6A	7/14/2011	2,500	transverse and longitudinal cracking	
X	-70.5221	Y	41.7671		
Sandwich	Rt 130	7/12/2011	11,812	2	Good to Very Good
Site Code: 20158	S of Cotuit Rd	7/14/2011	9,000		
X	-70.4894	Y	41.7152		
Sandwich	Rt 130	6/18/2012	11,269	5	Poor
Site Code: 20159	N of Quaker Meetinghouse Rd	6/20/2012	10,000	Potholes, rutting, cracks, repairs	
X	-70.4968	Y	41.6967		
Sandwich & Mashpee	Rt 130	7/23/2012	10,772	2	Good to Very Good
Site Code: 20160	@ Sand/Mash TL	7/25/2012	8,200		
X	-70.5093	Y	41.6753		
Sandwich & Mashpee	Rt 130	7/25/2011	10,074	2	Good to Very Good
Site Code: 20160	@ Sand/Mash TL	7/27/2011	7,700		
X	-70.5093	Y	41.6753		
Sandwich	Rt 130	7/6/2011	4,279	4	Poor to Fair
Site Code: 20721	N of Tupper Rd	7/8/2011	3,300	Longitudinal and transverse cracking, rutting	
X	-70.5033	Y	41.7593		
Sandwich & Barnstable	Rt 6A	7/23/2012	5,977	1	New
Site Code: 20162	@ Sand/Barn TL	7/25/2012	4,500		
X	-70.3967	Y	41.7263		
Sandwich & Barnstable	Rt 6A	7/25/2011	5,758	2	Good to Very Good
Site Code: 20162	@ Sand/Barn TL	7/27/2011	4,400		
X	-70.3967	Y	41.7263		

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Sandwich Site Code: 20163	Rt 6A E of Tupper Rd (east end)	6/18/2012 6/20/2012	10,926 9,700	3	Fair to Good Linear and Transverse Cracking
X	-70.4957	Y	41.7614		
Sandwich Site Code: 20164	Rt 6A W of Tupper Rd (east end)	6/18/2012 6/20/2012	8,690 7,700	4	Poor to Fair Transverse and linear cracking with some repairs
X	-70.4994	Y	41.7646		
Sandwich Site Code: 20144	Cotuit Rd N of Quaker Meetinghouse Rd	7/6/2011 7/8/2011	18,172 13,800	2	Good to Very Good
X	-70.4846	Y	41.7032		
Sandwich Site Code: 20145	Cotuit Rd S of Quaker Meetinghouse Rd	6/6/2012 6/8/2012	14,851 13,200	2	Good to Very Good
X	-70.4833	Y	41.6994		
Sandwich & Mashpee Site Code: 20147	Cotuit Rd @ Sand/Mash TL (Middle)	6/18/2012 6/20/2012	6,967 6,200	3	Fair to Good Weathering and Patching
X	-70.4749	Y	41.6780		
Sandwich & Mashpee Site Code: 21283	Cotuit Rd @ Sand/Mash TL (S end)	7/25/2011 7/27/2011	4,279 3,300	4	Poor to Fair longitudinal & edge cracking; raveling
X	-70.4687	Y	41.6656		
Sandwich Site Code: 7224	Harlow Rd E of Cotuit Rd	7/25/2011 7/27/2011	3,728 2,800	4	Poor to Fair Edge, longitudinal, and alligator cracking, raveling
X	-70.4695	Y	41.6695		
Sandwich Site Code: 21266	Jarves St S of Rt 6A	8/22/2011 8/25/2011	2,646 2,000	3	Fair to Good Edge cracking in parking lane
X	-70.4941	Y	41.7590		
Sandwich Site Code: 20720	Main St E of Rt 130	6/6/2012 6/8/2012	2,893 2,600	3	Fair to Good Minor potholes and weathering
X	-70.4991	Y	41.7583		
Sandwich Site Code: 7117	Old County Ln E of Jones Ln	7/25/2011 7/27/2011	643 490	4	Poor to Fair Transverse and edge cracking
X	-70.4053	Y	41.7234		

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Sandwich	Quaker Meetinghouse Rd E of Cotuit Rd	6/6/2012 6/8/2012	9,965 8,900	3	Fair to Good Minor potholes and weathering
Site Code: 20148	X -70.4813 Y 41.7032				
Sandwich	Quaker Meetinghouse Rd W of Cotuit Rd	7/6/2011 7/8/2011	11,103 8,400	4	Poor to Fair Deep rutting, longitudinal cracking
Site Code: 20149	X -70.4844 Y 41.7005				
Sandwich	Quaker Meetinghouse Rd S of Kiahs Way	6/6/2012 6/8/2012	10,138 9,000	2	Good to Very Good
Site Code: 21267	X -70.4667 Y 41.7161				
Sandwich	Quaker Meetinghouse Rd E of Peters Pond Dr	6/6/2012 6/8/2012	7,941 7,100	3	Fair to Good Small Cracks and Rutting
Site Code: 20151	X -70.4936 Y 41.6969				
Sandwich	Quaker Meetinghouse Rd E of Peters Pond Dr	7/6/2011 7/8/2011	7,511 5,700	3	Fair to Good one small longitudinal crack, holes in the curb
Site Code: 20151	X -70.4936 Y 41.6969				
Sandwich & Barnstable	Race Ln @ Sand/Barn TL	7/23/2012 7/25/2012	6,667 5,100	3	Fair to Good Rutting and Weathering
Site Code: 20155	X -70.4360 Y 41.6868				
Sandwich & Barnstable	Race Ln @ Sand/Barn TL	7/25/2011 7/27/2011	6,777 5,200	4	Poor to Fair Transverse and edge cracking, deep rutting
Site Code: 20155	X -70.4360 Y 41.6868				
Sandwich	Service Rd E of Quaker Meetinghouse Rd	7/23/2012 7/25/2012	2,069 1,600	3	Fair to Good cracks with repairs
Site Code: 20165	X -70.4563 Y 41.7294				
Sandwich & Barnstable	Service Rd @ Sand/Barn TL	6/18/2012 6/20/2012	731 650	3	Fair to Good cracking on edges, patching
Site Code: 20167	X -70.4126 Y 41.7105				
Sandwich	Tupper Rd (W end) N of Rt 6A	7/12/2011 7/14/2011	3,958 3,000	5	Poor Longitudinal cracks, rutting, upheaval, raveling, and corrugations
Site Code: 20941	X -70.5197 Y 41.7677				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Falmouth Site Code: 20206	Rt 151 E of Rt 28 X -70.5992 Y 41.6421	6/18/2012 6/20/2012	19,415 17,300	3	Fair to Good Weathering and repairs on cracks
Falmouth Site Code: 20206	Rt 151 E of Rt 28 X -70.5992 Y 41.6421	7/18/2011 7/20/2011	21,080 16,000	3	Fair to Good Repairs are in good shape
Falmouth Site Code: 20207	Rt 151 E of Rt 28A X -70.6110 Y 41.6461	7/24/2012 7/26/2012	14,305 10,900	3	Fair to Good cracking, mostly patched
Falmouth & Mashpee Site Code: 20205	Rt 151 @ Falm/Mash TL X -70.5306 Y 41.6171	6/26/2012 6/28/2012	20,210 18,000	4	Poor to Fair Part is new, Rutting, Cracks
Falmouth & Mashpee Site Code: 20205	Rt 151 @ Falm/Mash TL X -70.5306 Y 41.6171	7/27/2011 7/29/2011	21,830 16,600	3	Fair to Good severe rutting, repairs holding up
Falmouth Site Code: 20217	Rt 28 N of Lakeview Av X -70.6198 Y 41.5585	7/31/2012 8/2/2012	16,956 12,900	3	Fair to Good Rutting
Falmouth Site Code: 20217	Rt 28 N of Lakeview Av X -70.6198 Y 41.5585	7/20/2011 7/22/2011	18,104 13,800	4	Poor to Fair Longitudinal and block cracking
Falmouth Site Code: 20844	Rt 28 E of Spring Bars Rd X -70.5997 Y 41.5578	7/24/2012 7/26/2012	18,906 14,400	3	Fair to Good Linear Cracking
Falmouth Site Code: 20844	Rt 28 E of Spring Bars Rd X -70.5997 Y 41.5578	7/20/2011 7/22/2011	19,878 15,100	4	Poor to Fair Block, transverse, and longitudinal cracking
Falmouth Site Code: 20172	Brick Kiln Rd E of Sandwich Rd X -70.5886 Y 41.5807	6/26/2012 6/28/2012	6,494 5,800	3	Fair to Good Weathering, repairs

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Falmouth		6/20/2012	2,130	4	Poor to Fair
Site Code: 20173	Carriage Shop Rd E of Collins St	6/22/2012	1,900	Cracks, repairs, and rutting	
	X -70.5180 Y 41.5885				
Falmouth		7/24/2012	5,609	4	Poor to Fair
Site Code: 20174	Carriage Shop Rd N of Fresh Ponds Rd	7/26/2012	4,300	linear cracking on edge	
	X -70.5355 Y 41.5940				
Falmouth		6/18/2012	3,571	3	Fair to Good
Site Code: 20176	Carriage Shop Rd W of Old Barnstable Rd	6/20/2012	3,200	Patching	
	X -70.5508 Y 41.5991				
Falmouth		8/9/2011	4,856	3	Fair to Good
Site Code: 20190	Carriage Shop Rd E of Sandwich Rd	8/11/2011	3,700	Some cracking, all patched	
	X -70.5644 Y 41.6068				
Falmouth		6/20/2012	1,017	3	Fair to Good
Site Code: 20178	Church St S of Woods Hole Rd	6/22/2012	910	Weathering and repairs	
	X -70.6632 Y 41.5224				
Falmouth		7/27/2011	743	5	Poor
Site Code: 7214	Cross Rd S of Carriage Shop Rd	7/29/2011	560	longitudinal, transverse, & severe alligator cracking. Potholes, failing patches	
	X -70.5313 Y 41.5906				
Falmouth		8/9/2011	11,391	2	Good to Very Good
Site Code: 7125	Gifford St S of Brick Kiln Rd	8/11/2011	8,700		
	X -70.6042 Y 41.5802				
Falmouth		7/18/2011	10,595	2	Good to Very Good
Site Code: 7125	Gifford St S of Brick Kiln Rd	7/20/2011	8,100		
	X -70.6042 Y 41.5802				
Falmouth		6/26/2012	9,865	3	Fair to Good
Site Code: 20183	Gifford St N of Jones Rd	6/28/2012	8,800	weathering	
	X -70.6104 Y 41.5607				
Falmouth		6/26/2012	988	3	Fair to Good
Site Code: 20186	Hatchville Rd N of Sandwich Rd	6/28/2012	880	Linear cracking and cracking on edges	
	X -70.5682 Y 41.6068				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Falmouth	Jones Rd Btwn Rt 28 & Beacon St	7/24/2012 7/26/2012	14,413 11,000	3	Fair to Good Cracking and Patching
Site Code: 7216	X <input type="text" value="-70.6149"/> Y <input type="text" value="41.5627"/>				
Falmouth	Jones Rd Btwn Rt 28 & Beacon St	7/20/2011 7/22/2011	15,622 11,900	3	Fair to Good Repairs in good shape
Site Code: 7216	X <input type="text" value="-70.6149"/> Y <input type="text" value="41.5627"/>				
Falmouth	Jones Rd W of Dove Cottage Rd	7/24/2012 7/26/2012	13,582 10,300	3	Fair to Good cracking
Site Code: 20188	X <input type="text" value="-70.6075"/> Y <input type="text" value="41.5605"/>				
Falmouth	Katherine Lee Bates Rd E of Rt 28	6/26/2012 6/28/2012	2,848 2,500	5	Poor severe cracks, patching and rutting
Site Code: 7218	X <input type="text" value="-70.6203"/> Y <input type="text" value="41.5570"/>				
Falmouth	Locust St S of Rt 28	7/24/2012 7/26/2012	16,997 12,900	3	Fair to Good cracks
Site Code: 20191	X <input type="text" value="-70.6224"/> Y <input type="text" value="41.5543"/>				
Falmouth	Maravista Av E of Rt 28	7/24/2012 7/26/2012	1,676 1,300	3	Fair to Good cracks with repairs
Site Code: 21013	X <input type="text" value="-70.5952"/> Y <input type="text" value="41.5643"/>				
Falmouth	Marivista Ext S of Rt 28	7/31/2012 8/2/2012	6,011 4,600	3	Fair to Good Wear and Some Cracking
Site Code: 20193	X <input type="text" value="-70.5900"/> Y <input type="text" value="41.5696"/>				
Falmouth	Old Barnstable Rd S of Carriage Shop Rd	6/18/2012 6/20/2012	3,676 3,300	5	Poor severe cracking and rutting along edges
Site Code: 20196	X <input type="text" value="-70.5502"/> Y <input type="text" value="41.5983"/>				
Falmouth	Palmer Av W of Rt 28	7/20/2011 7/22/2011	3,206 2,400	2	Good to Very Good
Site Code: 7127	X <input type="text" value="-70.6197"/> Y <input type="text" value="41.5707"/>				
Falmouth	Palmer Av W of Hewins St	6/20/2012 6/22/2012	5,146 4,600	3	Fair to Good Transverse Cracks
Site Code: 20200	X <input type="text" value="-70.6202"/> Y <input type="text" value="41.5555"/>				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Falmouth	Palmer Av W of Hewins St	7/20/2011 7/22/2011	6,182 4,700	4	Poor to Fair transverse, longitudinal, and alligator cracking
Site Code: 20200	X -70.6202	Y 41.5555			
Falmouth & Mashpee	Red Brook Rd @ Falm/Mash TL	6/20/2012 6/22/2012	3,632 3,200	3	Fair to Good Cracks and repairs
Site Code: 20203	X -70.5034	Y 41.5832			
Falmouth & Mashpee	Sandwich Rd @ Falm/Mash TL	6/26/2012 6/28/2012	1,224 1,100	2	Good to Very Good
Site Code: 7123	X -70.5396	Y 41.6372			
Falmouth	Shoreview Dr N of Whittier Rd	6/20/2012 6/22/2012	117 100	2	Good to Very Good
Site Code: 7212	X -70.5782	Y 41.5551			
Falmouth	Spring Bars Rd E of Worcester Court Av	7/20/2011 7/22/2011	6,159 4,700	5	Poor Severe longitudinal, transverse, and alligator cracking
Site Code: 7129	X -70.5969	Y 41.5580			
Falmouth	Surf Dr W of Shore St	7/24/2012 7/26/2012	6,328 4,800	3	Fair to Good Cracking
Site Code: 7130	X -70.6167	Y 41.5426			
Falmouth	Woods Hole Rd S of Oyster Pond	7/31/2012 8/2/2012	10,314 7,800	3	Fair to Good Rutting
Site Code: 20237	X -70.6486	Y 41.5426			
Falmouth	Woods Hole Rd S of Oyster Pond	7/20/2011 7/22/2011	10,587 8,000	3	Fair to Good rutting, one small pothole
Site Code: 20237	X -70.6486	Y 41.5426			
Mashpee	Rt 151 W of Mashpee Rotary	7/31/2012 8/1/2012	15,014 11,400	3	Fair to Good rutting and repairs
Site Code: 20267	X -70.4891	Y 41.6183			
Mashpee	Rt 151 W of Mashpee Rotary	7/27/2011 7/29/2011	15,471 11,800	2	Good to Very Good
Site Code: 20267	X -70.4891	Y 41.6183			

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Mashpee	Rt 151 E of Old Barnstable Rd	6/26/2012 6/28/2012	19,511 17,400	3	Fair to Good Rutting
Site Code: 20268	X <input type="text" value="-70.5074"/> Y <input type="text" value="41.6170"/>				
Mashpee	Rt 151 E of Old Barnstable Rd	7/27/2011 7/29/2011	21,293 16,200	3	Fair to Good deep rutting, longitudinal cracking
Site Code: 20268	X <input type="text" value="-70.5074"/> Y <input type="text" value="41.6170"/>				
Mashpee & Barnstable	Rt 28 @ Mash/Barn TL	7/31/2012 8/2/2012	24,561 18,700	3	Fair to Good rutting and weathering
Site Code: 20270	X <input type="text" value="-70.4604"/> Y <input type="text" value="41.6336"/>				
Mashpee & Barnstable	Rt 28 @ Mash/Barn TL	7/27/2011 7/29/2011	25,150 19,100	4	Poor to Fair longitudinal, transverse, & edge cracking; deep rutting
Site Code: 20270	X <input type="text" value="-70.4604"/> Y <input type="text" value="41.6336"/>				
Mashpee	Ashers Pa E of Meetinghouse Rd	8/9/2011 8/11/2011	1,562 1,200	2	Good to Very Good
Site Code: 7221	X <input type="text" value="-70.4797"/> Y <input type="text" value="41.6288"/>				
Mashpee	Great Neck Rd North N of Mashpee Rotary	7/24/2012 7/26/2012	13,819 10,500	3	Fair to Good weathering, rutting
Site Code: 20252	X <input type="text" value="-70.4878"/> Y <input type="text" value="41.6200"/>				
Mashpee	Great Neck Rd North N of Mashpee Rotary	5/30/2012 6/1/2012	12,165 11,300	2	Good to Very Good
Site Code: 20252	X <input type="text" value="-70.4878"/> Y <input type="text" value="41.6200"/>				
Mashpee	Great Neck Rd South S of Mashpee Rotary	8/21/2012 8/23/2012	8,827 6,700	3	Fair to Good Cracking and patching
Site Code: 20246	X <input type="text" value="-70.4867"/> Y <input type="text" value="41.6172"/>				
Mashpee	Great Neck Rd South S of Mashpee Rotary	7/31/2012 8/1/2012	8,873 6,700	4	Poor to Fair Polished aggregate, cracking, rutting
Site Code: 20246	X <input type="text" value="-70.4867"/> Y <input type="text" value="41.6172"/>				
Mashpee	Great Neck Rd South S of Mashpee Rotary	7/27/2011 7/29/2011	9,855 7,500	3	Fair to Good minor patched cracking
Site Code: 20246	X <input type="text" value="-70.4867"/> Y <input type="text" value="41.6172"/>				

TOWN	ROUTE & LOCATION	Begin Date:		ADT AADT	Pavement Conditions	
		End Date:				
Mashpee	Lowell Rd	5/30/2012	5,420	3	Fair to Good	
Site Code: 20249	W of Great Neck Rd North	6/1/2012	5,000			Weathering and faded lines
	X -70.4863 Y 41.6338					
Mashpee	Mashpee Neck Rd	7/24/2012	3,028	1	New	
Site Code: 7222	S of Quinaquesset Av	7/26/2012	2,300			
	X -70.4689 Y 41.6210					
Mashpee	Mashpee Neck Rd	6/26/2012	2,869	1	New	
Site Code: 7222	S of Quinaquesset Av	6/28/2012	2,600			
	X -70.4689 Y 41.6210					
Mashpee	Meetinghouse Rd	5/30/2012	1,036	3	Fair to Good	
Site Code: 20250	N of Rt 28	6/1/2012	960			Cracking, rutting and some repairs
	X -70.4803 Y 41.6242					
Mashpee	Old Barn/Falm Rd	5/30/2012	3,175	3	Fair to Good	
Site Code: 20254	S of Rt 151	6/1/2012	2,900			Cracking and patching
	X -70.5092 Y 41.6167					
Mashpee	Old Barn/Falm Rd	8/9/2011	3,849	4	Poor to Fair	
Site Code: 20254	S of Rt 151	8/11/2011	2,900			pot holes, longitudinal cracking
	X -70.5092 Y 41.6167					
Mashpee	Old Barnstable Rd	6/26/2012	7,494	2	Good to Very Good	
Site Code: 20255	N of Rt 151	6/28/2012	6,700			
	X -70.5085 Y 41.6178					
Mashpee & Barnstable	Old Mill Rd	5/30/2012	676	5	Poor	
Site Code: 20256	@ Mash/Barn TL	6/1/2012	630			Pot holes & cracking and rutting upheaval
	X -70.4509 Y 41.6278					
Mashpee	Orchard Rd	5/30/2012	4,101	2	Good to Very Good	
Site Code: 20258	S of Rt 28	6/1/2012	3,800			
	X -70.4722 Y 41.6278					
Barnstable	Rt 28	6/11/2012	15,615	2	Good to Very Good	
Site Code: 21011	E of Bearses Way	6/15/2012	13,900			
	X -70.2996 Y 41.6633					

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Barnstable & Yarmouth	Rt 6A @ Barn/Yarm TL	5/21/2012 5/23/2012	10,074 9,700	2	Good to Very Good
Site Code: 20338	X -70.2603 Y 41.7013				
Barnstable & Yarmouth	Rt 6A @ Barn/Yarm TL	7/11/2011 7/13/2011	12,790 9,700	2	Good to Very Good
Site Code: 20338	X -70.2603 Y 41.7013				
Barnstable	Rt 6A E of Hyannis Rd	5/21/2012 5/23/2012	5,982 5,700	2	Good to Very Good
Site Code: 7132	X -70.2990 Y 41.7004				
Barnstable	Rt 6A E of Hyannis Rd	7/11/2011 7/13/2011	7,914 6,000	1	New
Site Code: 7132	X -70.2990 Y 41.7004				
Barnstable	Airport Rd N of Rt 132	7/30/2012 8/2/2012	2,264 1,700	4	Poor to Fair
Site Code: 20278	X -70.2985 Y 41.6705				severe weathering and shoving
Barnstable	Bearses Way N of Rt 28	6/11/2012 6/14/2012	16,386 14,600	3	Fair to Good
Site Code: 20281	X -70.3007 Y 41.6640				weathering
Barnstable	Bearses Way S of Rt 28	6/11/2012 6/12/2012	13,751 12,200	2	Good to Very Good
Site Code: 21012	X -70.2995 Y 41.6626				
Barnstable	Bearses Way N of Enterprise Rd	7/11/2011 7/13/2011	11,516 8,800	2	Good to Very Good
Site Code: 7336	X -70.3033 Y 41.6670				possible longitudinal crack, good
Barnstable	Bridge St E of Draw Bridge	5/23/2012 5/25/2012	3,051 2,900	3	Fair to Good
Site Code: 7201	X -70.3954 Y 41.6229				Rutting and partly patched
Barnstable	Bumps River Rd E of Lumbert Mill Rd	5/23/2012 5/25/2012	1,829 1,800	3	Fair to Good
Site Code: 7197	X -70.3636 Y 41.6485				Some Cracking

TOWN	ROUTE & LOCATION	Begin Date:		ADT	Pavement Conditions
		End Date:	AA DT		
Barnstable	Center St N of Main St	7/25/2012	7/27/2012	14,276	3 Fair to Good
Site Code:	X -70.2804 Y 41.6546			10,800	Cracking and Patching
Barnstable	Fuller Rd E of Wedgewood Dr	5/30/2012	6/1/2012	839	3 Fair to Good
Site Code:	X -70.3566 Y 41.6536			780	Weathering, rutting and old repairs
Barnstable	Huckins Neck Rd W of Rt 132	7/23/2012	7/25/2012	1,478	3 Fair to Good
Site Code:	X -70.3298 Y 41.6832			1,100	
Barnstable	Hyannis Rd S of Rt 6A	5/21/2012	5/23/2012	5,262	3 Fair to Good
Site Code:	X -70.3002 Y 41.7003			5,100	Small cracks, rutting
Barnstable	Independence Park Dr N of Rt 132	7/23/2012	7/25/2012	13,801	2 Good to Very Good
Site Code:	X -70.2997 Y 41.6718			10,500	
Barnstable	Kidds Hill Rd E of Phinneys Ln	5/21/2012	5/23/2012	1,626	4 Poor to Fair
Site Code:	X -70.3058 Y 41.6867			1,600	Severe Cracking, rutting , transverse cracking
Barnstable	Lewis Bay Rd N of South St	7/25/2012	7/27/2012	7,599	1 New
Site Code:	X -70.2749 Y 41.6535			5,800	
Barnstable	Lumbert Mill Rd S of Westminster Rd	5/23/2012	5/25/2012	1,197	3 Fair to Good
Site Code:	X -70.3702 Y 41.6508			1,100	
Barnstable	Main St (Hyannis) W of Cedar St	7/25/2012	7/27/2012	11,545	3 Fair to Good
Site Code:	X -70.2742 Y 41.6561			8,800	Cracking
Barnstable	Main St (Hyannis) W of Winter St	7/25/2012	7/27/2012	7,295	3 Fair to Good
Site Code:	X -70.2865 Y 41.6516			5,500	Rutting

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Barnstable	Nye Rd N of Lumbert Mill Rd	5/23/2012 5/25/2012	1,872 1,800	3	Fair to Good Linear Cracking
Site Code: 7203	X -70.3729 Y 41.6583				
Barnstable	Old Colony N of South St	6/5/2012 6/7/2012	6,855 6,100	2	Good to Very Good
Site Code: 7193	X -70.2808 Y 41.6518				
Barnstable	Old Colony N of South St	8/9/2011 8/11/2011	9,223 7,000	2	Good to Very Good
Site Code: 7193	X -70.2808 Y 41.6518				
Barnstable	Old Colony Rd S of South St & Ocean St	5/29/2012 5/31/2012	1,999 1,900	3	Fair to Good rutting and transverse cracking
Site Code: 20305	X -70.2813 Y 41.6504				
Barnstable	Old Post Rd E of Old Stage Rd	8/9/2011 8/11/2011	992 750	1	New
Site Code: 7195	X -70.3500 Y 41.6545				
Barnstable	Parker Rd S of 3rd Av	5/23/2012 5/25/2012	1,085 1,000	3	Fair to Good some cracking
Site Code: 7200	X -70.3850 Y 41.6207				
Barnstable	Phinneys Ln S of Kidds Hill Rd	5/21/2012 5/23/2012	6,940 6,700	3	Fair to Good
Site Code: 20837	X -70.3075 Y 41.6863				
Barnstable	Phinneys Ln S of Kidds Hill Rd	7/11/2011 7/13/2011	8,436 6,400	4	Poor to Fair Fair, cracking around drainpipe/manhole, longitudinal cracking
Site Code: 20837	X -70.3075 Y 41.6863				
Barnstable	West Main St S of Rt 28	7/25/2012 7/27/2012	14,362 10,900	3	Fair to Good Weathering and cracking along edges
Site Code: 20348	X -70.3317 Y 41.6576				
Barnstable	West Main St S of Rt 28	7/11/2011 7/13/2011	14,114 10,700	3	Fair to Good small cracks, slight rutting
Site Code: 20348	X -70.3317 Y 41.6576				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Yarmouth	Rt 28 W of Long Pond Dr	8/14/2012 8/16/2012	18,728 14,200	3	Fair to Good
Site Code: 21271	X -70.2084 Y 41.6551				Transverse and Linear cracking and rutting
Yarmouth	Rt 28 W of Lyman Ln	8/14/2012 8/16/2012	19,326 14,700	3	Fair to Good
Site Code: 21272	X -70.2006 Y 41.6624				Rutting
Yarmouth	Rt 28 E of North Main St	8/14/2012 8/16/2012	18,798 14,300	2	Good to Very Good
Site Code: 20395	X -70.1847 Y 41.6667				
Yarmouth	Rt 28 E of North Main St	7/13/2011 7/15/2011	19,854 15,100	4	Poor to Fair
Site Code: 20395	X -70.1847 Y 41.6667				longitudinal & transverse cracking; black patching held on asphalt
Yarmouth	Rt 28 E of Seaview Av	8/14/2012 8/16/2012	20,654 15,700	3	Fair to Good
Site Code: 21270	X -70.2174 Y 41.6507				Transverse cracking and rutting
Yarmouth	Rt 28 E of South Sea Av	6/19/2012 6/21/2012	17,790 15,800	4	Poor to Fair
Site Code: 21275	X -70.2291 Y 41.6495				Transverse Cracks, Repairs and Weathering
Yarmouth	Rt 28 E of Wood Rd	6/19/2012 6/21/2012	16,173 14,400	3	Fair to Good
Site Code: 20400	X -70.1976 Y 41.6639				cracking
Yarmouth	Rt 6A W of Setucket Rd	8/13/2012 8/15/2012	16,493 12,500	3	Fair to Good
Site Code: 20362	X -70.2054 Y 41.7121				Rutting
Yarmouth & Dennis	Rt 6A @ Yarm/Denn TL	8/13/2012 8/15/2012	12,884 9,800	3	Fair to Good
Site Code: 20405	X -70.1983 Y 41.7187				Cracking and Rutting
Yarmouth	Abells Rd E of Higgins Crowell Rd	8/14/2012 8/16/2012	1,586 1,200	5	Poor
Site Code: 7231	X -70.2416 Y 41.6517				Large Pot Hole and Patching

TOWN	ROUTE & LOCATION	Begin Date:		ADT	Pavement Conditions	
		End Date:	AADT			
Yarmouth	Buck Island Rd	8/14/2012	8/16/2012	13,312	1	New
Site Code:	W of Pumphouse Ln			10,100		
7232	X -70.2345	Y	41.6635			
Yarmouth	Buck Island Rd	8/14/2012	8/16/2012	8,571	1	New
Site Code:	E of West Yarmouth Rd			6,500		
20357	X -70.2270	Y	41.6647			
Yarmouth	Buck Island Rd	7/11/2011	7/13/2011	8,153	2	Good to Very Good
Site Code:	E of West Yarmouth Rd			6,200		
20357	X -70.2270	Y	41.6647			
Yarmouth	Camp St	8/14/2012	8/16/2012	4,204	2	Good to Very Good
Site Code:	N of Rt 28			3,200		
20360	X -70.2641	Y	41.6587			
Yarmouth	Forest Rd	8/14/2012	8/16/2012	7,384	3	Fair to Good
Site Code:	N of Rt 28			5,600		Cracking
20366	X -70.2043	Y	41.6597			
Yarmouth	Forest Rd	8/14/2012	8/16/2012	7,558	3	Fair to Good
Site Code:	S of Constance Av			5,700		rutting and patching
21288	X -70.2192	Y	41.6831			
Yarmouth	Great Western Rd	8/13/2012	8/15/2012	6,029	3	Fair to Good
Site Code:	over Rt 6			4,600		Patching and Rutting
7140	X -70.1838	Y	41.6919			
Yarmouth	Higgins Crowell Rd	8/14/2012	8/16/2012	5,952	3	Fair to Good
Site Code:	N of Abells Rd			4,500		Rutting and Patching
20369	X -70.2421	Y	41.6516			
Yarmouth	Higgins Crowell Rd	8/14/2012	8/16/2012	6,914	3	Fair to Good
Site Code:	N of Buck Island Rd			5,300		Cracking, Rutting, and Patching
20370	X -70.2445	Y	41.6612			
Yarmouth	Higgins Crowell Rd	8/14/2012	8/16/2012	7,207	3	Fair to Good
Site Code:	E of Willow St			5,500		Cracking and Rutting
20372	X -70.2601	Y	41.6801			

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Yarmouth		8/13/2012	8,115	3	Fair to Good
Site Code: 20373	Highbank Rd W of Great Western Rd	8/15/2012	6,200		Rutting
X	-70.1645	Y	41.6844		
Yarmouth		8/21/2012	5,070	3	Fair to Good
Site Code: 20374	Long Pond Dr W of Station Av	8/23/2012	3,900		Some wear and minor cracks
X	-70.1933	Y	41.6741		
Yarmouth		8/14/2012	5,482	3	Fair to Good
Site Code: 20375	Long Pond Rd N of Rt 28	8/16/2012	4,200		Rutting
X	-70.2076	Y	41.6558		
Yarmouth		8/13/2012	3,988	2	Good to Very Good
Site Code: 20377	North Main St N of Regional Av	8/15/2012	3,000		
X	-70.1832	Y	41.6766		
Yarmouth & Dennis		8/13/2012	5,549	2	Good to Very Good
Site Code: 20838	Setucket Rd @ Yarm/Denn TL	8/15/2012	4,200		
X	-70.1859	Y	41.7128		
Yarmouth & Dennis		7/13/2011	6,352	2	Good to Very Good
Site Code: 20838	Setucket Rd @ Yarm/Denn TL	7/15/2011	4,800		
X	-70.1859	Y	41.7128		
Yarmouth		8/13/2012	2,565	3	Fair to Good
Site Code: 7226	Strawberry Ln S of Rt 6A	8/15/2012	1,900		Some cracks wear and minor rutting
X	-70.2424	Y	41.7045		
Dennis		5/29/2012	5,970	2	Good to Very Good
Site Code: 20450	Rt 134 S of Rt 6A	5/31/2012	5,700		
X	-70.1614	Y	41.7425		
Dennis		8/6/2012	13,686	3	Fair to Good
Site Code: 20904	Rt 134 N of Airline Rd	8/8/2012	10,400		Some cracks, Patching and Repairs
X	-70.1538	Y	41.7072		
Dennis		8/6/2012	33,403	3	Fair to Good
Site Code: 20448	Rt 134 S of Exit 9	8/8/2012	25,400		wear and rutting
X	-70.1534	Y	41.6956		

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Dennis	Rt 134 S of Setucket Rd	8/20/2012 8/22/2012	11,879 9,000	2	Good to Very Good
Site Code: 20452	X -70.1580 Y 41.7234				
Dennis	Rt 134 N of Upper County Rd	8/20/2012 8/23/2012	24,077 18,300	3	Fair to Good
Site Code: 20453	X -70.1518 Y 41.6871				Cracking
Dennis	Rt 134 S of Upper County Rd	8/6/2012 8/8/2012	15,172 11,500	3	Fair to Good
Site Code: 20454	X -70.1512 Y 41.6853				Cracking with repairs and wear
Dennis	Rt 134 S of Upper County Rd	7/13/2011 7/15/2011	15,534 11,800	3	Fair to Good
Site Code: 20454	X -70.1512 Y 41.6853				repairs are holding, small cracks exist
Dennis	Rt 28 W of Sea St	8/6/2012 8/8/2012	12,338 9,400	3	Fair to Good
Site Code: 20456	X -70.1291 Y 41.6659				Linear Cracking
Dennis	Rt 28 E of Telegraph Rd	8/20/2012 8/23/2012	8,065 6,100	3	Fair to Good
Site Code: 20457	X -70.1235 Y 41.6682				Cracking
Dennis & Brewster	Rt 6A @ Denn/Brew TL	8/6/2012 8/8/2012	8,401 6,400	3	Fair to Good
Site Code: 20460	X -70.1452 Y 41.7448				Linear Cracking and wear
Dennis & Brewster	Rt 6A @ Denn/Brew TL	7/13/2011 7/15/2011	8,525 6,500	4	Poor to Fair
Site Code: 20460	X -70.1452 Y 41.7448				longitudinal, transverse, block, and alligator cracking; deep rutting in the Brewster section
Dennis	Rt 6A E of Old Bass River Rd	5/29/2012 5/31/2012	6,763 6,500	2	Good to Very Good
Site Code: 20461	X -70.1919 Y 41.7383				
Dennis	Airline Rd E of Rt 134	8/6/2012 8/8/2012	6,717 5,100	3	Fair to Good
Site Code: 20434	X -70.1525 Y 41.7081				Cracking with patching and edge cracks

TOWN	ROUTE & LOCATION	Begin Date:	ADT	Pavement Conditions	
		End Date:	AADT		
Dennis & Brewster	Airline Rd @ Denn/Brew TL (S end)	5/29/2012 5/31/2012	4,267 4,100	3	Fair to Good Cracking, repairs in good condition
Site Code:	X	-70.1400	Y	41.7265	
7145					
Dennis	Highbank Rd W of Main St	8/6/2012 8/8/2012	12,057 9,200	2	Good to Very Good
Site Code:	X	-70.1560	Y	41.6864	
20438					
Dennis	Market Pl W of Main St	5/29/2012 5/31/2012	2,802 2,700	2	Good to Very Good
Site Code:	X	-70.1540	Y	41.6944	
21278					
Dennis	Market Place W of Rt 134	6/5/2012 6/7/2012	5,960 5,300	3	Fair to Good Linear Cracking with repairs
Site Code:	X	-70.1537	Y	41.6935	
20443					
Dennis	Old Bass River Rd S of Rt 6A	8/20/2012 8/23/2012	5,887 4,500	2	Good to Very Good
Site Code:	X	-70.1920	Y	41.7380	
20446					
Dennis	Old Bass River Rd N of Highbank/Upper County	5/29/2012 5/31/2012	6,472 6,200	3	Fair to Good Rutting and Weathering
Site Code:	X	-70.1557	Y	41.6883	
21279					
Dennis	Old Bass River Rd N of Main St	6/5/2012 6/7/2012	5,485 4,900	4	Poor to Fair Severe weathering
Site Code:	X	-70.1589	Y	41.6928	
20445					
Dennis	Old Chatham Rd E of Rt 134	8/6/2012 8/8/2012	2,480 1,900	3	Fair to Good wear, some cracking
Site Code:	X	-70.1526	Y	41.7097	
21268					
Dennis	Scargo Hill Rd S of Rt 6A	8/6/2012 8/8/2012	1,256 950	3	Fair to Good Some signs of wear
Site Code:	X	-70.1694	Y	41.7429	
7205					
Dennis	South Gages Way N of Cape Cod Rail Trail	8/6/2012 8/8/2012	6,830 5,200	3	Fair to Good wear and minor cracking
Site Code:	X	-70.1388	Y	41.6897	
20436					

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Dennis		8/6/2012	2,719	3	Fair to Good
Site Code: 7208	Trotting Park Rd S of Rt 28	8/8/2012	2,100	Cracking, ruined edges, some repairs	
X	-70.1545	Y	41.6674		
Harwich		6/5/2012	7,796	3	Fair to Good
Site Code: 7147	Rt 124 N of Rt 39	6/7/2012	6,900	Rutting	
X	-70.0759	Y	41.6868		
Harwich		8/1/2011	9,928	3	Fair to Good
Site Code: 7147	Rt 124 N of Rt 39	8/3/2011	7,500	Transverse cracking	
X	-70.0759	Y	41.6868		
Harwich & Brewster		8/1/2012	7,203	3	Fair to Good
Site Code: 20498	Rt 124 @ Harw/Brew TL	8/3/2012	5,500	Linear Cracking and wear	
X	-70.0849	Y	41.7260		
Harwich & Brewster		8/1/2011	6,670	4	Poor to Fair
Site Code: 20498	Rt 124 @ Harw/Brew TL	8/3/2011	5,100	Alligator and longitudinal cracking	
X	-70.0849	Y	41.7260		
Harwich		8/1/2012	7,834	3	Fair to Good
Site Code: 21273	Rt 124 N of Long Pond Dr	8/3/2012	6,000	Rutting and Wear	
X	-70.0818	Y	41.7125		
Harwich		6/5/2012	13,336	2	Good to Very Good
Site Code: 20499	Rt 124 N of Queen Anne Rd	6/7/2012	11,900		
X	-70.0754	Y	41.7034		
Harwich & Brewster		8/20/2012	10,146	5	Poor
Site Code: 20500	Rt 137 @ Harw/Brew TL	8/22/2012	7,700	Cracking and pot holes on sides	
X	-70.0387	Y	41.7267		
Harwich & Brewster		8/8/2011	10,931	4	Poor to Fair
Site Code: 20500	Rt 137 @ Harw/Brew TL	8/10/2011	8,300	longitudinal cracking, potholes	
X	-70.0387	Y	41.7267		
Harwich & Chatham		8/20/2012	10,185	3	Fair to Good
Site Code: 20508	Rt 28 @ Harw/Chat TL (N end)	8/22/2012	7,700	Cracking and rutting	
X	-69.9943	Y	41.7118		

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Harwich & Chatham	Rt 28 @ Harw/Chat TL (N end)	7/19/2011 7/21/2011	10,792 8,200	4	Poor to Fair Deep rutting, long., transverse, and edge cracking
Site Code: 20508	X -69.9943 Y 41.7118				
Harwich & Chatham	Rt 28 @ Harw/Chat TL (W end)	6/25/2012 6/28/2012	8,827 7,900	4	Poor to Fair Cracking and Rutting
Site Code: 20509	X -70.0317 Y 41.6790				
Harwich & Chatham	Rt 28 @ Harw/Chat TL (W end)	7/19/2011 7/21/2011	10,217 7,800	3	Fair to Good transverse cracking, slight longitudinal cracking
Site Code: 20509	X -70.0317 Y 41.6790				
Harwich	Rt 28 E of Sisson Rd (Rt 39)	6/5/2012 6/7/2012	7,471 6,600	2	Good to Very Good
Site Code: 20511	X -70.0916 Y 41.6716				
Harwich	Rt 28 E of Sisson Rd (Rt 39)	8/1/2011 8/3/2011	12,097 9,200	4	Poor to Fair Transverse, longitudinal, alligator, and block cracking
Site Code: 20511	X -70.0916 Y 41.6716				
Harwich	Rt 39 W of Rt 137	6/25/2012 6/28/2012	9,875 8,800	3	Fair to Good Rutting
Site Code: 20523	X -70.0228 Y 41.7074				
Harwich	Depot Rd (E) N of Rt 28	8/8/2011 8/10/2011	2,874 2,200	3	Fair to Good edge cracking, gouging, minor transverse, longitudinal cracking. However, problems mostly in one 50-ft section
Site Code: 20474	X -70.0392 Y 41.6806				
Harwich	Queen Anne Rd W of Rt 124	6/5/2012 6/7/2012	5,946 5,300	3	Fair to Good minor rutting
Site Code: 20494	X -70.0758 Y 41.7025				
Harwich & Chatham	Queen Anne Rd W of Rt 137	7/30/2012 8/1/2012	4,604 3,500	3	Fair to Good Weathering and Rutting
Site Code: 20495	X -70.0164 Y 41.7001				
Harwich	Queen Anne Rd E of Rt 39	8/20/2012 8/22/2012	4,479 3,400	3	Fair to Good Rutting and Weathering
Site Code: 20496	X -70.0310 Y 41.7001				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Harwich	Queen Anne Rd W of Rt 39	8/1/2012 8/3/2012	5,721 4,300	3	Fair to Good Some Wear and Rutting
Site Code: 20491	X -70.0325 Y 41.7013				
Harwich	Queen Anne Rd E of Main St (Old Chatham Rd)	6/5/2012 6/7/2012	4,864 4,300	3	Fair to Good Some Cracking and weathering
Site Code: 20493	X -70.1133 Y 41.6958				
Harwich	Queen Anne Rd E of Oak St	6/5/2012 6/7/2012	5,803 5,200	3	Fair to Good Linear cracking, rutting
Site Code: 20492	X -70.0690 Y 41.7040				
Chatham	Rt 137 S of Middle Rd	8/20/2012 8/22/2012	7,436 5,700	3	Fair to Good Transverse Cracking
Site Code: 20554	X -70.0204 Y 41.6891				
Chatham	Rt 137 S of Queen Anne Rd	7/30/2012 8/1/2012	9,642 7,300	3	Fair to Good Cracks and repairs
Site Code: 20555	X -70.0165 Y 41.6988				
Chatham	Rt 137 S of Queen Anne Rd	7/19/2011 7/21/2011	10,076 7,700	4	Poor to Fair Block, edge, transverse, & longitudinal cracking; mild rutting
Site Code: 20555	X -70.0165 Y 41.6988				
Chatham	Rt 28 E of Barn Hill Rd	7/30/2012 8/1/2012	15,821 12,000	1	New
Site Code: 20557	X -69.9913 Y 41.6825				
Chatham	Rt 28 E of Barn Hill Rd	7/19/2011 7/21/2011	15,589 11,800	4	Poor to Fair Severe transverse cracking, pothole, major patching (in good condition), deep rutting
Site Code: 20557	X -69.9913 Y 41.6825				
Chatham	Rt 28 W of Stoney Hill Rd	8/20/2012 8/22/2012	9,619 7,300	3	Fair to Good Cracking and rutting
Site Code: 20564	X -69.9623 Y 41.6982				
Chatham	Rt 28 W of Stoney Hill Rd	8/8/2011 8/10/2011	10,642 8,100	4	Poor to Fair edge, longitudinal cracking; severe rutting
Site Code: 20564	X -69.9623 Y 41.6982				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Chatham	Rt 28 W of Stoney Hill Rd	7/19/2011 7/21/2011	10,375 7,900	3	Fair to Good mild longitudinal, transverse, edge cracking, deep rutting
Site Code: 20564	X -69.9623 Y 41.6982				
Chatham	Main St W of Chatham Bars Av	7/30/2012 8/1/2012	7,097 5,400	3	Fair to Good Rutting
Site Code: 21281	X -69.9575 Y 41.6802				
Chatham	Main St W of Chatham Bars Av	7/9/2012 7/11/2012	7,362 5,600	2	Good to Very Good
Site Code: 21281	X -69.9575 Y 41.6802				
Chatham	Morton Rd N of Charles St	6/25/2012 6/28/2012	1,183 1,100	3	Fair to Good Cracks and patching
Site Code: 20545	X -70.0251 Y 41.6826				
Chatham	Old Comers Rd W of Rt 28	8/20/2012 8/22/2012	3,285 2,500	3	Fair to Good Cracking
Site Code: 20546	X -69.9787 Y 41.7030				
Chatham	Old Queen Anne Rd N of Stepping Stones /Earles/Wilford	7/30/2012 8/1/2012	7,046 5,400	3	Fair to Good rutting and weathering
Site Code: 20550	X -69.9757 Y 41.6916				
Chatham	Old Queen Anne Rd N of Stepping Stones /Earles/Wilford	7/19/2011 7/21/2011	7,558 5,700	3	Fair to Good patching, slight cracking
Site Code: 20550	X -69.9757 Y 41.6916				
Chatham	Old Queen Anne Rd S of Stepping Stones Rd	7/30/2012 8/1/2012	3,851 2,900	4	Poor to Fair Cracking. some repairs and rutting
Site Code: 20551	X -69.9741 Y 41.6906				
Chatham & Harwich	Queen Anne Rd E of Rt 137	7/30/2012 8/1/2012	11,827 9,000	3	Fair to Good some wear and cracking
Site Code: 20552	X -70.0150 Y 41.7005				
Chatham	Sam Ryder Rd N of Middle Rd	7/9/2012 7/11/2012	2,498 1,900	3	Fair to Good cracks with repairs
Site Code: 20791	X -70.0062 Y 41.6881				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Chatham	Sam Ryder Rd N of Middle Rd	7/19/2011 7/21/2011	2,690 2,000	3	Fair to Good
Site Code: 20791	X -70.0062	Y 41.6881		repairs are holding together	
Brewster	Rt 124 N of Rt 137	6/11/2012 6/14/2012	2,938 2,600	3	Fair to Good
Site Code: 20580	X -70.0827	Y 41.7570		Patching Some Cracks	
Brewster	Rt 137 W of Rt 124	6/11/2012 6/14/2012	3,030 2,700	4	Poor to Fair
Site Code: 7142	X -70.0835	Y 41.7554		Repairs Cracking and Rutting	
Brewster	Rt 137 W of Rt 124	8/1/2011 8/3/2011	3,755 2,900	4	Poor to Fair
Site Code: 7142	X -70.0835	Y 41.7554		Transverse, longitudinal, and alligator cracking	
Brewster	Rt 6A E of Rt 124	8/1/2012 8/3/2012	15,253 11,600	3	Fair to Good
Site Code: 20586	X -70.0825	Y 41.7613		EB half is new and WB half is rutting	
Brewster	Rt 6A E of Rt 124	8/1/2011 8/3/2011	15,023 11,400	4	Poor to Fair
Site Code: 20586	X -70.0825	Y 41.7613		Deep rutting, longitudinal and transverse cracking	
Brewster & Orleans	Rt 6A @ Brew/Orle TL	8/1/2012 8/3/2012	18,048 13,700	3	Fair to Good
Site Code: 20584	X -70.0084	Y 41.7754		Some cracking and rutting	
Brewster & Orleans	Rt 6A @ Brew/Orle TL	8/3/2011 8/5/2011	19,249 14,600	4	Poor to Fair
Site Code: 20584	X -70.0084	Y 41.7754		Severe longitudinal, edge, and transverse cracking	
Brewster	Freemans Way W of Rt 6	6/11/2012 6/13/2012	2,851 2,500	2	Good to Very Good
Site Code: 20577	X -70.0233	Y 41.7372			
Brewster	Millstone Rd N of Rt 137	6/11/2012 6/14/2012	3,150 2,800	4	Poor to Fair
Site Code: 20579	X -70.0536	Y 41.7426		Cracking And Some Patching	

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Brewster	Millstone Rd S of Rt 6A	8/3/2011 8/5/2011	5,315 4,000	3	Fair to Good
Site Code: 7144	X -70.0440	Y 41.7725		Minor edge cracking, otherwise repairs holding	
Brewster	Satucket Rd W of Red Top Rd	6/11/2012 6/14/2012	4,836 4,300	4	Poor to Fair
Site Code: 20589	X -70.1319	Y 41.7322		Cracking Repairs Rutting	
Orleans	Rt 28 N of Rt 39	7/18/2012 7/20/2012	14,646 11,100	3	Fair to Good
Site Code: 20623	X -69.9910	Y 41.7527		Rutting	
Orleans	Rt 28 N of Rt 39	8/3/2011 8/5/2011	15,947 12,100	3	Fair to Good
Site Code: 20623	X -69.9910	Y 41.7527		minor edge & transverse cracking, rutting	
Orleans	Rt 28 S of Rt 6A	7/10/2012 7/12/2012	12,442 9,500	3	Fair to Good
Site Code: 20908	X -69.9869	Y 41.7915		rutting, cracking	
Orleans	Rt 28 S of Main St	7/18/2012 7/20/2012	11,588 8,800	3	Fair to Good
Site Code: 20622	X -69.9875	Y 41.7852		Rutting	
Orleans	Rt 28 S of Main St	8/3/2011 8/5/2011	13,032 9,900	4	Poor to Fair
Site Code: 20622	X -69.9875	Y 41.7852		Longitudinal & transverse cracking, deep rutting	
Orleans	Rt 6A/28 E of Rt 28	7/10/2012 7/12/2012	21,417 16,300	3	Fair to Good
Site Code: 20633	X -69.9856	Y 41.7929		rutting and cracking	
Orleans	Beach Rd W of Mill Ln	8/3/2011 8/5/2011	7,526 5,700	3	Fair to Good
Site Code: 20598	X -69.9631	Y 41.7854		patched up, small transverse and longitudinal cracking	
Orleans	Beach Rd E of Nauset Rd	8/3/2011 8/5/2011	4,190 3,200	3	Fair to Good
Site Code: 20599	X -69.9424	Y 41.7889		minor edge cracking, otherwise repairs are holding well	

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Orleans		7/9/2012	2,294	4	Poor to Fair
Site Code: 20600	Brewster Cross Rd E of Rt 6A	7/11/2012	1,700	Minor Potholes, repairs	
X	-69.9926	Y	41.7856		
Orleans		7/9/2012	12,806	4	Poor to Fair
Site Code: 20607	Eldredge Parkway E of Rt 6A	7/11/2012	9,700	Cracks and repairs	
X	-69.9995	Y	41.7800		
Orleans		7/9/2012	5,342	4	Poor to Fair
Site Code: 20609	Lots Hollow Rd S of Eldredge Parkway	7/11/2012	4,100	Weathering, Worn Paint, Patching	
X	-69.9991	Y	41.7784		
Orleans		7/10/2012	10,741	2	Good to Very Good
Site Code: 20611	Main St W of Rt 28	7/11/2012	8,200		
X	-69.9878	Y	41.7859		
Orleans		7/18/2012	10,166	2	Good to Very Good
Site Code: 20612	Main St E of Rt 6A	7/20/2012	7,700		
X	-69.9909	Y	41.7873		
Orleans		7/18/2012	10,323	3	Fair to Good
Site Code: 20613	Main St W of Rt 6A	7/20/2012	7,800	Rutting	
X	-69.9921	Y	41.7884		
Orleans		8/7/2012	6,933	3	Fair to Good
Site Code: 20610	Main St E of Locust Rd	8/9/2012	5,300	Cracks with patching	
X	-69.9947	Y	41.7902		
Orleans		7/18/2012	4,446	3	Fair to Good
Site Code: 20616	Old Colony Wa E of Old Tote Rd	7/20/2012	3,400	Cracks with Patching	
X	-69.9988	Y	41.7849		
Eastham		7/9/2012	22,969	2	Good to Very Good
Site Code: 21282	Rt 6 S of Samoset Rd	7/11/2012	17,500		
X		Y			
Eastham		8/8/2011	5,379	1	New
Site Code: 20638	Brackett Rd E of Rt 6	8/10/2011	4,100		
X	-69.9869	Y	41.8555		

TOWN	ROUTE & LOCATION	Begin Date:		ADT AADT	Pavement Conditions	
		End Date:				
Eastham		8/8/2011		329	5	Poor
Site Code:	Governor Prence Rd	8/10/2011		250	All types of cracking; severe block cracking	
20641	W of Rt 6					
X	-69.9713	Y	41.8183			
Eastham		8/8/2011		3,855	4	Poor to Fair
Site Code:	Herring Brook Rd	8/10/2011		2,900	transverse, edge, & longitudinal cracking	
20644	N of Samoset Rd					
X	-69.9969	Y	41.8266			
Eastham		7/9/2012		2,150	3	Fair to Good
Site Code:	Nauset Rd (N end)	7/11/2012		1,600	cracks with repairs	
20741	E of Rt 6					
X	-69.9837	Y	41.8653			
Eastham		7/9/2012		5,683	2	Good to Very Good
Site Code:	Nauset Rd (S end)	7/11/2012		4,300		
20757	E of Rt 6					
X	-69.9747	Y	41.8379			
Eastham		7/9/2012		1,860	3	Fair to Good
Site Code:	Old Orchard Rd	7/11/2012		1,400	weathering, repairs	
21285	S of Glacier Hills Rd					
X	-69.9797	Y	41.8497			
Eastham		7/9/2012		3,943	4	Poor to Fair
Site Code:	Samoset Rd	7/11/2012		3,000	Cracks and patching	
20657	W of Rt 6					
X	-69.9750	Y	41.8302			
Eastham		8/8/2011		4,458	3	Fair to Good
Site Code:	Samoset Rd	8/10/2011		3,400	minor longitudinal cracking, patched	
20657	W of Rt 6					
X	-69.9750	Y	41.8302			
Eastham & Wellfleet		8/7/2012		2,652	3	Fair to Good
Site Code:	West Rd	8/9/2012		2,000	Cracks with repairs	
20659	@ East/Well TL					
X	-69.9935	Y	41.8763			
Wellfleet		6/19/2012		18,571	3	Fair to Good
Site Code:	Rt 6	6/21/2012		16,500	Linear Cracking and Patching	
20842	S of Lecount Hollow Rd					
X	-69.9869	Y	41.9129			
Wellfleet		7/26/2011		25,709	4	Poor to Fair
Site Code:	Rt 6	7/28/2011		19,500	severe kibg, cracking, transverse cracking at edges	
20842	S of Lecount Hollow Rd					
X	-69.9869	Y	41.9129			

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Wellfleet	Briar Ln W of Rt 6	7/26/2011 7/28/2011	2,718 2,100	4	Poor to Fair transverse, long., edge cracking
Site Code: 20660	X <input type="text" value="-70.0318"/> Y <input type="text" value="41.9444"/>				
Wellfleet	Cahoon Hollow Rd E of Rt 6	7/26/2011 7/28/2011	2,952 2,200	3	Fair to Good One transverse crack, otherwise good
Site Code: 20661	X <input type="text" value="-70.0197"/> Y <input type="text" value="41.9358"/>				
Wellfleet	Commercial St S of Holbrook Ave	7/26/2011 7/28/2011	7,178 5,500	4	Poor to Fair Block, transverse, & long. cracking; deep rutting
Site Code: 20662	X <input type="text" value="-70.0297"/> Y <input type="text" value="41.9309"/>				
Wellfleet	Cove Rd W of Rt 6	8/7/2012 8/9/2012	2,187 1,700	3	Fair to Good wear and some cracking
Site Code: 21287	X <input type="text" value="-70.0175"/> Y <input type="text" value="41.9297"/>				
Wellfleet	Gross Hill Rd E of Rt 6	7/26/2011 7/28/2011	1,375 1,000	4	Poor to Fair transverse, long., & alligator cracking
Site Code: 20664	X <input type="text" value="-70.0238"/> Y <input type="text" value="41.9446"/>				
Wellfleet	Gull Pond Rd E of Rt 6	7/26/2011 7/28/2011	1,112 850	5	Poor Block cracking, potholes, utility patch failure, settlement, edge cracking
Site Code: 20665	X <input type="text" value="-70.0312"/> Y <input type="text" value="41.9480"/>				
Wellfleet	LeCount Hollow Rd E of Rt 6	6/19/2012 6/21/2012	2,192 2,000	3	Fair to Good Cracking and repairs
Site Code: 20666	X <input type="text" value="-69.9891"/> Y <input type="text" value="41.9168"/>				
Wellfleet	Lieutenant Island Rd W of Rt 6	8/7/2012 8/9/2012	1,406 1,100	4	Poor to Fair Severe wear, weathering and cracking
Site Code: 20667	X <input type="text" value="-69.9851"/> Y <input type="text" value="41.8999"/>				
Wellfleet	Long Pond Rd E of Lawrence Rd	7/16/2012 7/18/2012	1,524 1,200	3	Fair to Good Weathering
Site Code: 21286	X <input type="text" value="-70.0208"/> Y <input type="text" value="41.9417"/>				
Wellfleet	Main St W of Rt 6	6/19/2012 6/21/2012	7,483 6,700	2	Good to Very Good
Site Code: 20670	X <input type="text" value="-70.0231"/> Y <input type="text" value="41.9381"/>				

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Wellfleet		7/16/2012	6,355	1	New
Site Code: 20669	Main St @ MethodistChurch	7/18/2012	4,800		
X	-70.0274	Y	41.9389		
Truro		8/7/2012	21,796	3	Fair to Good
Site Code: 20690	Rt 6 S of Rt 6A	8/9/2012	16,600		Linear Cracking
X	-70.0763	Y	42.0264		
Truro		7/10/2012	19,082	2	Good to Very Good
Site Code: 20693	Rt 6 N of Truro Central School	7/12/2012	14,500		
X	-70.0724	Y	42.0201		
Truro		7/16/2012	16,554	3	Fair to Good
Site Code: 20694	Rt 6 S of Union Field Rd	7/18/2012	12,600		Rutting
X	-70.0490	Y	41.9976		
Truro		7/9/2012	3,316	2	Good to Very Good
Site Code: 7152	Rt 6A S of Pond Rd/Highland Rd	7/12/2012	2,500		
X	-70.0842	Y	42.0333		
Truro & Provincetow		8/7/2012	3,821	3	Fair to Good
Site Code: 20696	Rt 6A @ Trur/Prov TL	8/9/2012	2,900		Some wear
X	-70.1474	Y	42.0636		
Truro & Provincetow		8/2/2011	3,939	4	Poor to Fair
Site Code: 20696	Rt 6A @ Trur/Prov TL	8/4/2011	3,000		Gouging and transverse cracking
X	-70.1474	Y	42.0636		
Truro		8/2/2011	2,564	4	Poor to Fair
Site Code: 20683	Depot Rd W of Castle Rd	8/4/2011	1,900		Transverse, longitudinal, block, and alligator cracking
X	-70.0502	Y	41.9918		
Truro		8/2/2011	2,079	2	Good to Very Good
Site Code: 20684	Head of the Meadow Rd E of Rt 6	8/4/2011	1,600		
X	-70.0818	Y	42.0409		
Truro		8/2/2011	608	4	Poor to Fair
Site Code: 20686	Hughes Rd (S End) W of Rt 6A	8/4/2011	460		transverse & edge cracking
X	-70.0795	Y	42.0288		

TOWN	ROUTE & LOCATION	Begin Date: End Date:	ADT AADT	Pavement Conditions	
Truro	Old County Rd S of Prince Valley Rd	7/10/2012 7/12/2012	389 300	3	Fair to Good
Site Code: 20688	X <input type="text" value="-70.0652"/> Y <input type="text" value="41.9655"/>				linear and transverse cracking
Truro	Truro Center Rd N of Castle Rd	7/10/2012 7/12/2012	1,623 1,200	3	Fair to Good
Site Code: 21274	X <input type="text" value="-70.0508"/> Y <input type="text" value="41.9957"/>				transverse cracking
Provincetow	Rt 6A W of Bradford St	8/2/2011 8/4/2011	2,803 2,100	4	Poor to Fair
Site Code: 7150	X <input type="text" value="-70.2074"/> Y <input type="text" value="42.0403"/>				Transverse & longitudinal cracking
Provincetow	Bradford St Btwn Conwell & Johnson	8/2/2011 8/4/2011	12,915 9,800	5	Poor
Site Code: 20698	X <input type="text" value="-70.1847"/> Y <input type="text" value="42.0546"/>				Pot holes, alligator, transverse, longitudinal, edge, & block cracking
Provincetow	Bradford St Btwn Ryder & Alden	7/16/2012 7/18/2012	8,724 6,600	4	Poor to Fair
Site Code: 20701	X <input type="text" value="-70.1873"/> Y <input type="text" value="42.0521"/>				Linear Cracking and Rutting
Provincetow	Bradford St W of Shank Painter Rd	7/16/2012 7/18/2012	7,482 5,700	3	Fair to Good
Site Code: 20702	X <input type="text" value="-70.1919"/> Y <input type="text" value="42.0480"/>				Cracking and Rutting
Provincetow	Bradford St Btwn Winslow&Prince	7/16/2012 7/18/2012	7,774 5,900	4	Poor to Fair
Site Code: 20703	X <input type="text" value="-70.1891"/> Y <input type="text" value="42.0506"/>				Linear Cracking
Provincetow	Conwell St N of Rt 6A	8/7/2012 8/9/2012	7,148 5,400	4	Poor to Fair
Site Code: 7151	X <input type="text" value="-70.1848"/> Y <input type="text" value="42.0549"/>				Cracking, upheaval, severe wear
Provincetow	Province Land Rd S of Race Point Rd	8/2/2011 8/4/2011	1,060 810	4	Poor to Fair
Site Code: 7149	X <input type="text" value="-70.2090"/> Y <input type="text" value="42.0715"/>				Longitudinal, edge, and transverse cracking

CAPE COD COMMISSION

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