

Pavement Management 2015 Status Report

June 2016





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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.



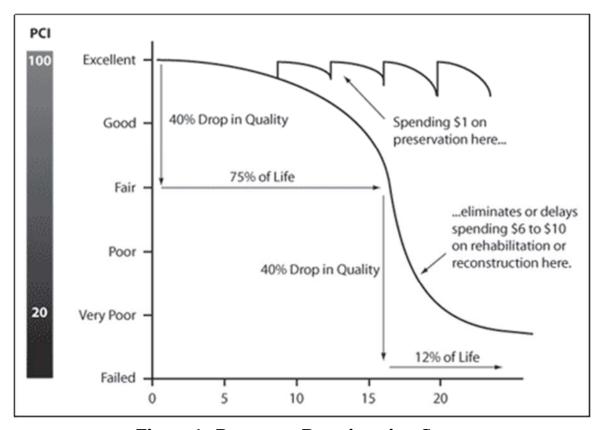


Figure 1 - Pavement Deterioration Curve

Source: Federal Highway Administration

1.2 EVALUATION CRITERIA FOR CCC DATA COLLECTION

The Cape Cod Commission has continues 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	New pavement with 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, and email survey was sent to each of the 15 towns' Department of Public Works directors. Follow-up inquiries were made in following years. 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.

1.3.2 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.

1.3.1 BREWSTER PMS ACTIVITIES

Brewster is currently working with a consultant to look at Brewster's roads and establishing 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.

1.3.3 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

1.3.4 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

1.3.5 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.



1.3.6 MASHPEE PMS ACTIVITIES

Mashpee has provided a list of recent paving projects completed between 2008 and 2013. Paving has occurred on over 8 miles of roads and bike paths on municipal roadways during this timeframe.

1.3.7 PROVINCETOWN PMS ACTIVITIES

GHD was hired to develop a Town-wide paving plan with the goal of developing a long-term paving and road resurfacing plan that would evaluate the condition of the current roadways infrastructure, develop costs of maintenance and rehabilitation, and provide a tool to track repairs and expenditures.

A summary of the effort states that:

- The Pavement Management Plan provides detailed pavement condition and repair cost information
- The MicroPaver software provides a strong tool to manage the Town's roads into the future
- This information needs to be integrated with other project and utility information to inform the annual budget process on which roads will be repaired and paved next
- Grant funding opportunities will be pursued

1.3.8 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.

1.3.9 TRURO PMS ACTIVITIES

Truro uses local knowledge to determine pavement repair priorities.

1.3.10 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 subsequent follow-up, 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			
Brewster	Working with Consultant			
Dennis	VHB Pavement Management System			
Eastham	Locally developed -spreadsheets			
Falmouth	VUEWorks Asset Management Software			
Harwich	Bonsai Logic Roadway Inventory			
Mashpee	Local knowledge			
Sandwich	VHB Pavement Management System			
Provincetown	MicroPaver 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:

PCI = 100 - (Highest Deduct Value) - (25% of remaining base related deduct values) - (10% 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:

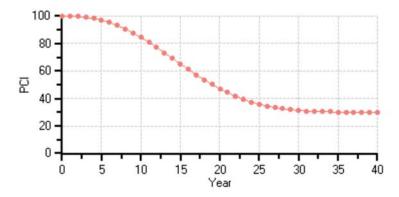


Figure 2 - Sample Deterioration Curve

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 analyzed to identify overall pavement conditions in the different Cape Cod towns to assist in programming maintenance and reconstruction activities.

According to information prepared for 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.

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" (Pavement Serviceability Index) 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

1.5.1 CCC EVALUATIONS OF PAVEMENT CONDITIONS – "WINDSHIELD" SURVEYS

Beginning in 2011, CCC staff undertook a series of "windshield" surveys throughout Barnstable County. Starting in 2014, a new data collection strategy was deployed, based on Geographic Information Systems' needs and strengths. Data-collection regions of each town were identified which contained roughly one-third of the mileage of federal-aid eligible municipal roadways. The quality and accuracy of the data collection was greatly improved through the use of GPS-capable tablet computers. The following figure shows the roadways that the CCC staff collected data on in 2015.





Figure 3 - Municipal Roads Surveyed in 2015



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

Table 4 – 2011-2015 CCC Surveys of Pavement Condition - miles

Town	Very Good to Excellent	Good to Very Good	Fair to Good	Poor to Fair	Poor	Totals
Barnstable	7.5	25.0	52.9	22.6	1.4	109.5
Bourne	3.6	4.9	24.8	6.1	1.0	40.4
Brewster	1.0	7.0	13.1	5.0	0.3	26.5
Chatham	2.4	3.9	4.7	1.6	0.0	12.6
Dennis	5.2	10.0	27.4	2.3	0.0	45.0
Eastham	0.0	1.4	12.2	3.1	0.0	16.7
Falmouth	0.9	19.3	34.4	15.7	0.1	70.5
Harwich	2.5	14.6	23.8	1.7	0.0	42.5
Mashpee	0.1	6.0	23.0	0.8	0.0	30.0
Orleans	0.0	5.8	9.5	1.3	0.0	16.6
Provincetown	0.0	1.4	1.6	2.3	0.0	5.3
Sandwich	3.2	6.9	18.8	7.6	0.6	37.0
Truro	1.2	2.1	5.3	1.5	0.0	10.1
Wellfleet	0.0	0.7	10.0	0.5	0.0	11.2
Yarmouth	1.0	12.0	32.3	5.5	0.0	50.7
Totals	28.8	121.0	293.8	77.6	3.4	524.6

As shown in the table above, over 500 miles of survey data were collected throughout the 15 towns of Barnstable County from 2011-2015. The most common rating "Fair to Good" yielded over 293 miles. This is followed by almost 121 miles of "Good to Very Good", over 77 miles of "Poor to Fair," over 28 miles for both "Very Good to Excellent" and slightly over three miles of "Poor."

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



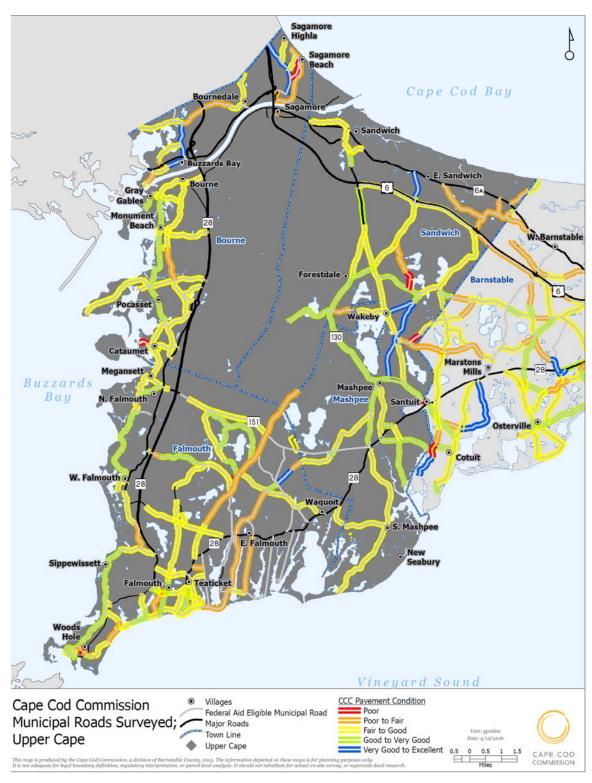


Figure 4 - 2011-2015 CCC Pavement Condition Surveys: Upper Cape



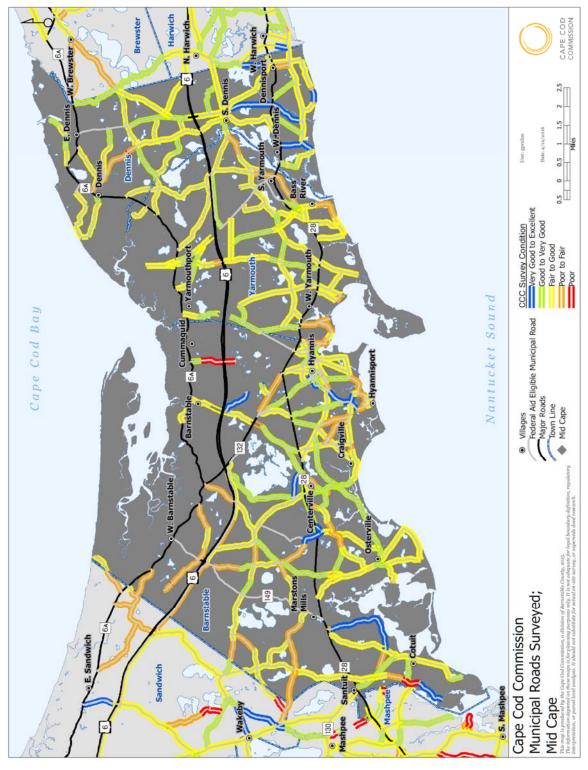


Figure 5 - 2011-2015 CCC Pavement Condition Surveys: Mid-Cape



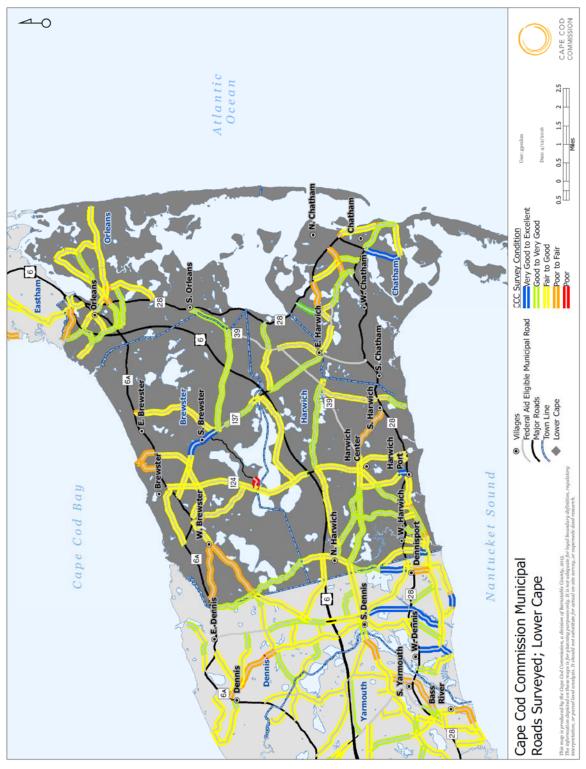


Figure 6 - 2011-2015 CCC Pavement Condition Surveys: Lower Cape



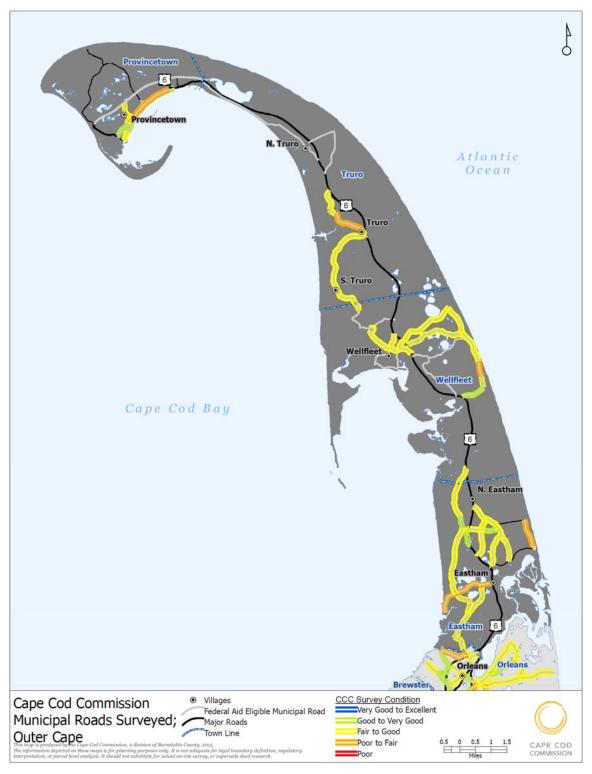


Figure 7 - 2011-2015 CCC Pavement Condition Surveys: Outer Cape



1.5.2 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 and 2013, this yielded pavement condition data at 598 unique locations throughout the Cape's 15 towns. Some locations were surveyed more than once over a period of year — however, only the most recent data are used for the analysis described below.

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 5 - Summary of Pavement Conditions at ATR Sites

TOWN	# of Sites	Avg. AADT	Avg. Condition	Weighted Condition
Barnstable	72	7,891	2.85	2.70
Bourne	38	6,227	2.92	2.87
Brewster	15	5,684	3.27	3.34
Chatham	39	5,186	3.05	3.14
Dennis	46	5,855	2.67	2.77
Eastham	18	3,195	2.94	2.60
Falmouth	65	6,745	2.98	2.96
Harwich	37	6,563	2.76	2.63
Mashpee	33	7,302	2.97	2.99
Orleans	31	5,582	2.90	2.98
Provincetown	24	4,070	3.00	3.10
Sandwich	57	5,156	2.95	2.78
Truro	37	2,506	2.84	2.72
Wellfleet	28	2,947	2.86	2.85
Yarmouth	58	5,836	2.66	2.71



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).



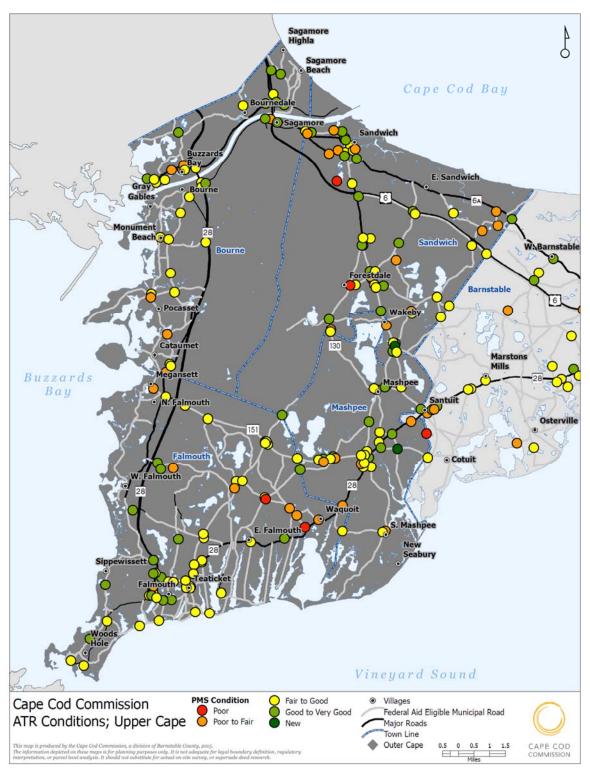


Figure 8 - 2011-2015 Pavement Conditions at ATR Locations: Upper Cape



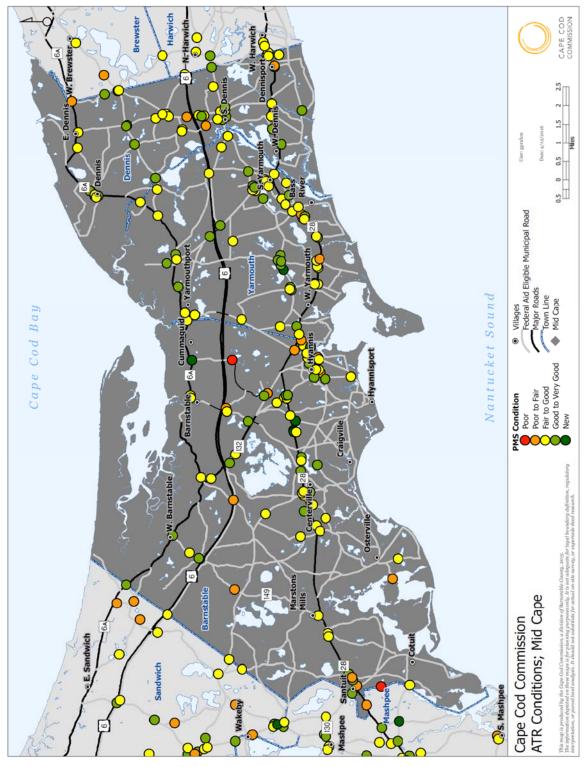


Figure 9 - 2011-2015 Pavement Conditions at ATR Locations: Mid-Cape



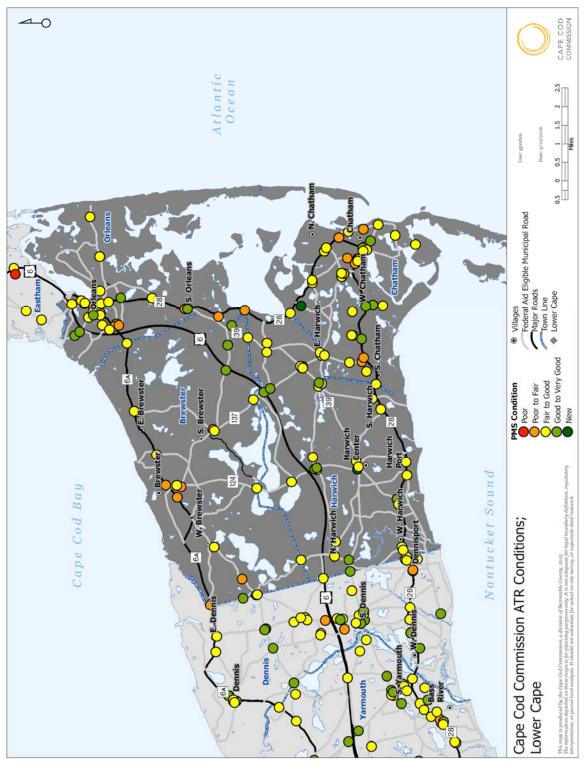


Figure 10 - 2011-2015 Pavement Conditions at ATR Locations: Lower Cape



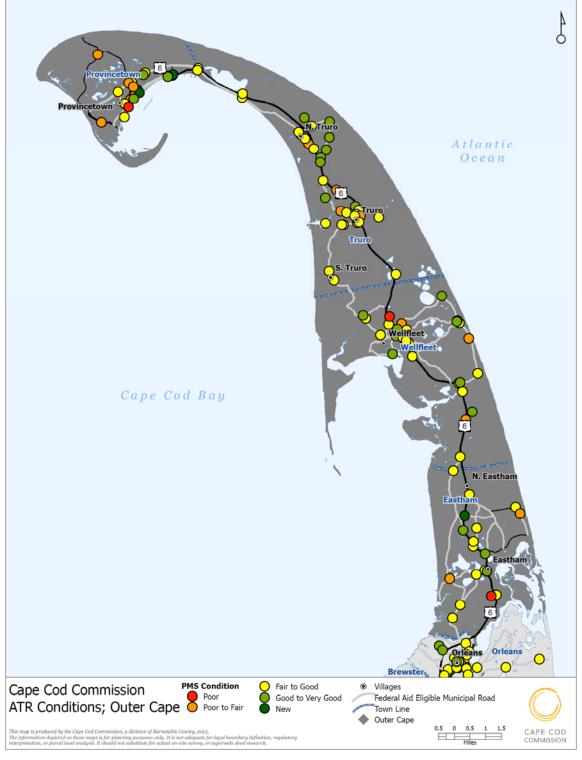


Figure 11 - 2011-2015 Pavement Conditions at ATR Locations: Outer Cape



1.5.3 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.



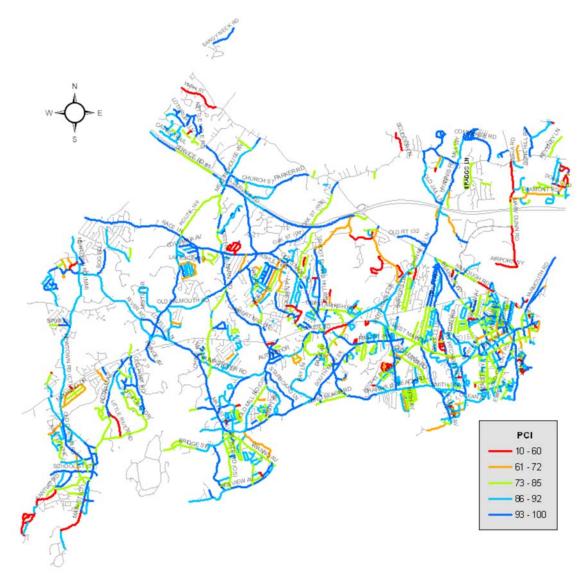


Figure 12 - Barnstable PCI Map

Source: Town of Barnstable/VHB 2009 Data



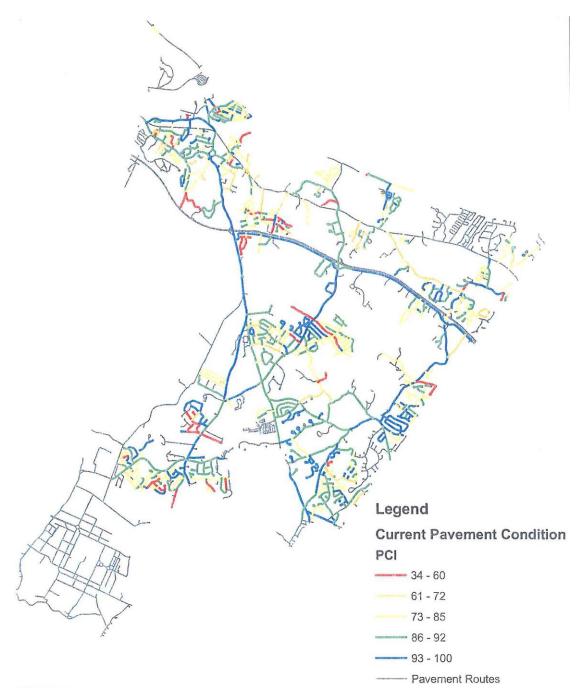


Figure 13 - Sandwich PCI Map

Source: Town of Sandwich/VHB 2005-2006 Data



1.6 RECOMMENDATIONS FOR ACHIEVING IMPROVED PAVEMENT CONDITION

The pavement deterioration curve shown in Figure 1 demonstrates the advantages of maintaining good roads in order to avoid expensive rehabilitation and reconstruction. For each level of Pavement Condition there is a corresponding Pavement Condition Index (PCI) – indicated by the column "PCI Start" in the table below.

By plotting the PCI for each condition level on the deterioration curve we are able to estimate the PCI after 5 years (this number corresponds to the 5-year "time bands" used in the Regional Transportation Plan for programming transportation projects). This is indicated by the column "5 Year – PCI No Repair" in the table below.

Repair strategies for each pavement "Starting Condition" vary according to starting PCI. For example, pavement currently categorized as "Good" or better (PCI greater than 89.0) may undergo "Maintenance" (e.g. crack-sealing, cleaning catch basins, etc.) with an associated modest cost per mile. Pavement currently categorized from Fair to Good (PCI of 80.5) would undergo "Rehabilitation" and a higher cost and pavement below Fair condition (PCI below 65.5) would require the most expensive repair of "Reconstruction." The estimated costs per mile for each repair strategy were originally estimated by the Old Colony Planning Council.

On average, pavement categorized as Good or above that is maintained would retain the same PCI. Pavement that is rehabilitated or reconstructed would on average achieve a PCI equal to "Very Good – Excellent" (PCI 96.5).

Therefore, it is possible to calculate a "Benefit" (i.e., the difference in the PCI between performing a repair and doing nothing). For example, if a segment of road is currently assessed to be at a PCI of 80.5 (Fair to Good) there are two possibilities: (1) rehabilitate the pavement resulting in an average PCI of 96.5 or (2) allow the pavement to deteriorate over the five year time span down to a PCI of 29.7. In this case, the benefit of performing the repair (i.e., rehabilitation) is calculated to be the difference from 96.5 minus 29.7, or 66.8.

By relating the PCI Benefit of performing roadway repairs to the repair cost per mile, it is possible to calculate a Benefit/Cost ratio. These ratios are shown in the right-most column of the table below. To make the comparisons easier to review, the Benefit/Cost ratio of all of the pavement conditions have be factored by 10,000.



Table 6 - Change in Pavement Condition – Improvement Strategy

Starting Condition	PCI Start	5 Year - PCI No Repair	Repair Strategy	Repair Cost per mile	5 Year PCI Repair	PCI Benefit	Benefit / Cost (scaled by 10,000)
Very Good to Excellent	96.5	83.6	Maintain- ance	\$35,000	96.5	12.9	3.69
Good to Very Good	89.0	54.6	Maintain- ance	\$45,000	89	34.4	7.64
Fair to Good	80.5	29.7	Rehabilit- ation	\$100,000	96.5	66.8	6.68
Poor to Fair	65.5	22.2	Recon- struction	\$550,000	96.5	74.3	1.35
Poor	27.5	16.6	Recon- struction	\$554,000	96.5	79.9	1.44

The table above indicates that the most cost-effect repair strategy would be focused on performing maintenance on "Good to Very Good" roads with an estimated Benefit/Cost of 7.74, closely followed by performing rehabilitation on "Fair to Good" roads with an estimated Benefit/Cost of 6.68.

As a matter of policy, it is also recommended that funds be reserved to reconstruct a subset of "Poor to Fair" and "Poor" Roads.

The Cape Cod MPO is committed to exploring improved pavement management strategies and techniques to help optimize investment and achieve maximum improvement in overall PCIs.



1.7 CONCLUSION/RECOMMENDATIONS FOR PMS ENHANCEMENT

During 2016, 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
- Generate listings of roadways with poor pavement conditions

APPENDIX -

Cape Cod Commission Pavement Condition - Comments

Cape Cod Pavement Conditions - Comments

Town Name	Street Name	Comments		
BARNSTABLE	BARNSTABLE ROAD	Crack seal		
BARNSTABLE	BAY VIEW STREET	Pot holes cs		
BARNSTABLE	CAMP STREET	Cracks		
BARNSTABLE	CHESTNUT STREET	Crack seal		
BARNSTABLE	CRAIGVILLE BEACH ROAD	Occ. crack seal		
BARNSTABLE	FALMOUTH ROAD	Cracks		
BARNSTABLE	GOSNOLD STREET	Minor rutting / Occ patch, minor rutting		
BARNSTABLE	GREENWOOD AVENUE	Crack seal / Utility patch		
BARNSTABLE	HYANNIS AVENUE	Crack seal		
BARNSTABLE	HYANNIS BARNSTABLE ROAD	Pot holes		
BARNSTABLE	IRVING AVENUE	Transverse cracks, crack seal		
BARNSTABLE	IYANOUGH AVENUE	Transverse cracks, crack seal		
BARNSTABLE	LAFAYETTE AVENUE	Transverse cracks, crack seal		
BARNSTABLE	MAIN STREET	Cracks / Rutting		
BARNSTABLE	MARY DUNN WAY	Irregular crown / Spalling, potholes, patches, crack seal		
BARNSTABLE	NORTH STREET	Crack seal		
BARNSTABLE	OCEAN AVENUE	Transverse cracks		
BARNSTABLE	OCEAN STREET	Occ patch, minor rutting / Shoving		
BARNSTABLE	OLD COLONY ROAD	Minor rutting / Utility work		
BARNSTABLE	OLD CRAIGVILLE ROAD	Crack seal / Polishing, utility patches		
BARNSTABLE	OLD KINGS ROAD	Tv cracking		
BARNSTABLE	OLD TOWN ROAD	Crack seal, rutting / Occ. crack seal / Polishing, utility patches		
BARNSTABLE	PHINNEYS LANE	Cracks		
BARNSTABLE BARNSTABLE	RACE LANE SCHOOL STREET	better here / minor linear crack / more wear & crack sealing (linear) / more wear & minor cracking / serious wear, utility patch / wear Minor transv cracks.		
BARNSTABLE	SCUDDER AVENUE	Crack seal, utility work		
BARNSTABLE	SEA STREET	Transverse cracks		
BARNSTABLE	STRAWBERRY HILL ROAD	Crack seal / Occ. crack seal		
BARNSTABLE	THE STRAIGHT WAY SOUTH SECTION	Crack seal / Occ. crack seal		
BARNSTABLE	WASHINGTON AVENUE HYANNISPORT	Crack seal / Transverse cracks, crack seal		
BARNSTABLE	WEST MAIN STREET	Crack seal		
BARNSTABLE	WEST MAIN STREET ROTARY CIRCLE	Crack seal		
BARNSTABLE	WINCHESTER AVENUE	Transverse cracks, crack seal		
BARNSTABLE	WINTER STREET	Crack seal / Minor rutting, crack seal		
BARNSTABLE	YARMOUTH ROAD	Cracks		
BOURNE	CLAY POND ROAD	cracking		
BOURNE	COUNTY ROAD	cracking		
BOURNE	RED BROOK HARBOR ROAD	Crack seal		
BOURNE	SCRAGGY NECK ROAD	Crack seal		
BOURNE	SQUETEAGUE HARBOR ROAD	Crack seal		
BREWSTER BREWSTER	AIRLINE ROAD MILLSTONE ROAD	crack seal / long. cracks, minor edge ravel, patches, wear / rare patch Cs		
BREWSTER	SATUCKET ROAD	lots of crack sealing, unrepaired holes, occasional cracking		
DIVE AA DI FIL	S. C. GERET HONE	cracks, edge raveling, wear / large patches, crack seal / wheelpath		
BREWSTER	STONY BROOK ROAD	cracking, wear, edge raveling		
DDEMICTED	TURMAN ROAD	crack seal, wear, rutting, occ.patches / wear, crack seal, transverse		
BREWSTER	TUBMAN ROAD	cracking, patches		
CHATHAM	BRIDGE STREET	Cs		
CHATHAM	CROWELL ROAD	occasional patches, minor cracking		

Cape Cod Pavement Conditions - Comments

CHATHAM	SHORE ROAD	Cs Comments			
CHATTAIVI	SHORE ROAD				
DENNIS	AIRLINE ROAD	long. cracks, minor edge ravel, patches, wear / potholes, a lot of crack seal / rare patch			
DENNIS	MAIN STREET	more wear, no cracks / wear still no cracks			
		ding near drainage catch basin / natch sinking transversal /across width of			
		dips near drainage catch basin / patch sinking, transversal (across width of			
		roadway, utility?) / rutting - bumpy section / some unevenness / stress,			
		dark patches leaner at bridge ends / transversal cracking / transversal			
DENNIS	OLD BASS RIVER ROAD	cracking in parallel path NB side / utility patch failing / wear			
EASTHAM	BRIDGE ROAD	crack sealing - old, fair / good			
EASTHAM	HERRING BROOK ROAD	good			
		Rutting, some trans cracking and linear cracking, especially at major			
FALMOUTH	ASHUMET ROAD	intersections.			
FALMOUTH	BLACKSMITH SHOP ROAD	Edgecracks			
FALMOUTH	BOXBERRY HILL ROAD	Crack seal / Cs			
FALMOUTH	CARRIAGE SHOP ROAD	crack seal; occ: filled pothole, edge cracking, transverse; minor rutting			
FALMOUTH	HATCHVILLE ROAD	Cs			
FALMOUTH	HOOPPOLE ROAD	Light patchwork, linear cracking, cracked seals			
		Crack seal / Rutting, some trans cracking and linear cracking, especially at			
FALMOUTH	NATHAN ELLIS HIGHWAY	major intersections.			
FALMOUTH	PALMER AVENUE	Cracking / Potholes, patches, spalling, utility			
FALMOUTH	PINE STREET	Cs			
FALMOUTH	RANSOM ROAD	Cracks			
FALMOUTH	SAM TURNER ROAD	Crack seal			
FALMOUTH	SANDWICH ROAD	Occ. patch			
FALMOUTH	SCHOOL STREET	Occ. patches			
FALMOUTH	SIPPEWISSETT ROAD	Crack seal			
		Occ. patchCrack seal, occasional patch / Crack seal, occasional patch /			
FALMOUTH	THOMAS B LANDERS ROAD	crack seal, rutting, potholes / cracks, crack sealing potholes			
FALMOUTH	TURNER ROAD	Occ. patch			
HARWICH	QUEEN ANNE ROAD	ocassional patches, minor cracking, crack sealing / rare patch			
MASHPEE	AMY BROWN ROAD	Cracks sealed / Unpaved. Road was closed at end, could go no further.			
MASHPEE	COTUIT ROAD	Crack seal			
MASHPEE	FALMOUTH ROAD	Spalling / Weathering, cracks, cs			
MASHPEE	GOODSPEED ROAD	gated, unpaved			
		Unpaved, dirt road/off-road trail, fire damage on both sides halfway			
MASHPEE	GREAT HAY ROAD SOUTH	down road			
MASHPEE	GREAT NECK ROAD SOUTH	Cracking			
MASHPEE	HOOPPOLE ROAD	Light patchwork, linear cracking, cracked seals			
MASHPEE	LOWELL ROAD	M cracks, patches			
MASHPEE	MAIN STREET	Minor cracking			
MASHPEE	MEETINGHOUSE ROAD	Cs, patch, transv cracks / Spalling			
MASHPEE	MONOMOSCOY ROAD	Cracks sealed			
		Rutting, some trans cracking and linear cracking, especially at major			
MASHPEE	NATHAN ELLIS HIGHWAY	intersections.			
		gated, unpaved / Side street completely blocked. Both ends end abruptly			
MASHPEE	NOISY HOLE ROAD	and turn to rocks/gravel.			
	2.22	Rutting, some trans cracking and linear cracking, especially at major			
MASHPEE	OLD BARNSTABLE ROAD	intersections. / Weathering, cracks, cs			
MASHPEE	PUNKHORN POINT ROAD	Unpaved			
1717 STITLE	I STANTIONAL OUAL NOAD	Loubasea			

Cape Cod Pavement Conditions - Comments

MASHPEE	QUINAQUISSET AVENUE	Minor transv cracks.				
MASHPEE	RED BROOK ROAD	Cracks sealed				
MASHPEE	SAMPSONS MILL ROAD	Tv cracking				
ORLEANS	BRIDGE ROAD	crack sealing - old, fair				
ORLEANS	FINLAY ROAD	Cs				
ORLEANS	MAIN STREET	crack sealing / minor rutting, patches / wear near Rt 6A intersection				
ORLEANS	POND ROAD	Cs				
ORLEANS	ROCK HARBOR ROAD	crack sealing / first 50' fair near Rock Harbor				
ORLEANS	SKAKET BEACH ROAD	Cs				
PROVINCETOWN	COMMERCIAL STREET	Severe weathering, unsealed cracks, extremely tight driving				
PROVINCETOWN SANDWICH	SHANK PAINTER ROAD COTUIT ROAD	better ride quality / poor ride quality / patches / some failed pavement Crack seal				
TRURO	OLD COUNTY ROAD	alligator cracks, fair / fair / fair, unsealed cracks / good				
TRORO	OLD COOKTT ROAD	diligator cracks, rail / rail / rail, driscaled cracks / good				
WELLFLEET	OCEANVIEW DRIVE	fair - patches & ride quality poor / good / good, some crack repairs				
YARMOUTH	BAXTER AVENUE	Edge raveling, rutting, crack seal / Rutting, weathering, crack seal				
		Crack seal, potholes / Crack seal, patches / Patches, rutting, potholes / Pot				
YARMOUTH	BAYVIEW STREET	holes cs				
YARMOUTH	BROADWAY	Transverse cracks, crack seal, weathering				
YARMOUTH	BUCK ISLAND ROAD	Cs				
YARMOUTH	GLENWOOD STREET	Transverse cracks, crack seal, potholes, edge raveling				
YARMOUTH	HARBOR ROAD	Transverse cracks, crack seal, potholes, edge raveling				
YARMOUTH	HIGGINS CROWELL ROAD	Crack seal / Cs				
YARMOUTH	HIGHLAND STREET	Crack seal, transverse cracks				
YARMOUTH	PARK AVENUE	Crack seal / Crack seal, transverse cracks				
YARMOUTH	SCHOLL AVENUE	Surface treatment				
YARMOUTH	SILVER LEAF LANE	Crack seal				
YARMOUTH	SOMERSET STREET	Crack seal, transverse cracks				
YARMOUTH	SOUTH SEA AVENUE	Crack seal				
VARMOUTL	MECT VARIAGUITU DOAD	cracking / middle of lanes more wear / wear (potholes at Rt 28) / wear but no cracks / Wear w/short linear crack near lane seam / wear, humps - transversal, ravelling & crack sealing / wear, raveling / wear, util. patch				
YARMOUTH	WEST YARMOUTH ROAD	repair sunken slightly				
YARMOUTH	WILLOW AVENUE	Crack seal, potholes				
YARMOUTH	WINSLOW GRAY ROAD	Cs				

APPENDIX -

Cape Cod Commission ATR Location Data

Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 6/9/2014 4 Poor to Fair 8,879 **Bourne Rt 28A Falmouth** 7,900 @ Bour/Falm TL Site Code: 20123 Χ -70.6107 Υ 41.6577 3 Fair to Good 7/17/2012 **Bourne** 5,757 **Rt 28A** 4,400 cracks and repairs N of County Rd Site Code: 20124 Υ Χ -70.6077 41.6605 7/17/2012 2 Good to Very Good **Bourne** 7,748 Rt 3A **Plymouth** 5,900 S of Bour/Plym TL Site Code: 20125 -70.5439 Υ 41.7966 Χ 3 Fair to Good 7/29/2013 **Bourne** 10,046 Rt 3A 7,600 weathering, cracks N of Meetinghouse Rd Site Code: 20126 -70.5428 Υ 41.7856 Χ 2 8/18/2015 Good to Very Good 20,320 Bourne Rt 6 Wareham 15,400 @ Bour/Ware TL Site Code: 20817 Χ -70.6212 Υ 41.7470 4 Poor to Fair 08/26/2014 8,371 **Bourne** Rt 6 Bypass 6,400 Cracking W of Belmont Circle Site Code: 20127 -70.6060 Υ 41.7509 08/26/2014 3 Fair to Good 6,934 **Bourne** Rt 6 Bypass 5,300 **E of Memorial Circle** Site Code: 21263 -70.6168 Χ 41.7466 3 Fair to Good 7/31/2013 13,881 **Bourne** Rt 6&28 10,500 minor rutting E of Academy Dr Site Code: 20131 Χ -70.6156 Υ 41.7452 7/6/2011 Poor to Fair 20,016 **Bourne** Rt 6&28 15,200 Transverse, longitudinal, and edge cracking W of Belmont Circle Site Code: 7175 -70.5993 41.7510 Χ 3 Fair to Good 7/31/2013 13,958 **Bourne** Rt 6&28 10,600 Cracking W of St. Margaret Site Code: 20132 -70.6103 Χ Υ 41.7463

Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 Fair to Good 5/27/2014 **Bourne** 12,814 Rt 6A Sandwich 12,300 @ Bour/Sand TL Site Code: 20133 41.7682 Χ -70.5233 Υ 2 Good to Very Good 5/21/2012 **Bourne** 5,930 **Adams St** 5,700 S of Sandwich Rd Site Code: 20815 Χ -70.5405 Υ 41.7725 3 6/27/2012 Fair to Good **Bourne** 1,631 Andy Olivia Rd 1,500 Linear and transverse cracking S of Rt 6 Scenic Hwy Site Code: 21277 -70.5911 Υ 41.7517 Χ 2 Good to Very Good 08/26/2014 6,223 **Bourne** Canal Rd 4,700 S of Scenic Hwy Site Code: 20189 -70.5408 Υ 41.7819 Χ 2 5/27/2014 Good to Very Good 2,059 Bourne Church Ln 2,000 N of Rt 6 Scenic Site Code: 20814 Χ -70.5475 Υ 41.7813 3 Fair to Good 6/12/2012 4,748 **Bourne** Clay Pond Rd 4,200 Linear Cracks and Repairs W of Rt 28 Site Code: 20108 -70.5854 41.7174 Υ 6/12/2012 3 Fair to Good 3,633 **Bourne County Rd** 3,200 Cracking S of Barlows Landing Rd Site Code: 20109 -70.6050 41.6945 Χ 3 Fair to Good 7/18/2011 3,748 **Bourne County Rd** 2,800 Some minor cracking, repairs are good N of Clay Pond Rd Site Code: besides this 20930 -70.6082 41.7189 6/12/2012 Fair to Good 3,873 **Bourne County Rd** 3,400 **Linear Cracking** S of Old Dam Rd Site Code: 20110 -70.6008 41.7311 Χ 3 Fair to Good 8/21/2012 4,756 **Bourne County Rd** 3,600 Rutting N of Rt 28A Site Code: 20111 -70.6084 Χ Υ 41.6614

Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 3 7/17/2012 Fair to Good 3,663 **Bourne County Rd** 2,800 Linear Cracks and Patching S of Valley Bars Rd Site Code: 20112 -70.6073 41.7033 Χ Υ 4 Poor to Fair 6/27/2012 **Bourne** 5,302 Head of the Bay Rd 4,700 cracking **N of Belmont Circle** Site Code: 20114 -70.5986 Υ Χ 41.7530 2 7/12/2011 Good to Very Good **Bourne** 4,682 Head of the Bay Rd 3,600 E of Plymouth Ln Site Code: 20113 -70.6016 Υ 41.7684 Χ 3 Fair to Good 7/12/2011 **Bourne** 2,264 **Herring Pond Rd** 1,700 longitudinal cracking N of Bournedale Rd Site Code: 20769 Χ -70.5615 Υ 41.7804 2 7/17/2012 Good to Very Good 7,545 Bourne Meetinghouse Ln 5,700 W of Old Plymouth Rd Site Code: 20115 -70.5360 41.7806 3 Fair to Good 6/27/2012 1,818 **Bourne** Nightingale Pond Rd 1,600 weathering, linear cracking N of Scenic Hwy Site Code: 20135 -70.5913 Υ 41.7528 Χ 6/27/2012 3 Fair to Good 789 **Bourne** Old Bridge Rd 700 Linear Cracking and Patching S of Belmont Circle Site Code: 21276 -70.5980 41.7509 Χ Good to Very Good 7/29/2013 3,898 **Bourne** Old Plymouth Rd 3,000 S of Norris Rd Site Code: 7121 -70.5380 41.7948 Fair to Good 7/31/2013 3 5,134 **Bourne** Sandwich Rd 3,900 rutting under Bourne Bridge Site Code: 20136 -70.5877 41.7449 Χ 2 7/29/2013 Good to Very Good 28,396 **Bourne** Sandwich Rd 21,600 W of Rt 6 Access Ramp Site Code: 20137 Χ -70.5479 41.7743

Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 7/8/2015 4 Poor to Fair **Bourne** 19,650 Sandwich Rd 14,900 W of Sagamore Bridge Site Code: 7118 Χ -70.5446 41.7742 2 Good to Very Good 7/31/2013 **Bourne** 22,817 **Sandwich Rd Connector** 17,300 E of Bourne Rotary Site Code: 20850 Χ -70.5852 Υ 41.7446 3 Fair to Good 6/24/2013 **Bourne** 3,771 Shore Rd 3,400 Cracking, Weathering N of Barlows Landing Rd Site Code: 20138 -70.6193 Υ 41.6938 Χ 4 Poor to Fair 6/9/2014 **Bourne** 3,312 Shore Rd 2,900 Cracking, significant edge cracks S of Barlows Landing Rd Site Code: 20139 Χ -70.6197 Υ 41.6923 7/8/2015 3 Fair to Good 5,390 Bourne Shore Rd 4,100 N of Beach St Site Code: 7120 Χ -70.6134 Υ 41.7200 4 Poor to Fair 7/8/2015 3,214 **Bourne** Shore Rd 2,400 N of County Rd Site Code: 7119 -70.6097 Υ 41.6749 08/26/2014 3 Fair to Good 8,277 **Bourne** Trowbridge Rd 6,300 W of Bourne Rotary Site Code: 20141 -70.5876 41.7429 3 Fair to Good 08/26/2014 4,171 **Bourne** Waterhouse Rd 3,200 S of Cotuit Rd Site Code: 21192 Χ -70.5952 Υ 41.7384 7/12/2011 Good to Very Good 11,812 Sandwich Rt 130 9,000 S of Cotuit Rd Site Code: 20158 -70.4894 41.7152 Χ 3 6/2/2014 Fair to Good 21,167 Sandwich Rt 130 18,800 Site Code: N of Jan Sebastian Dr 21329 Χ -70.4886 41.7186

Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 2 8/5/2013 Good to Very Good 10,500 Sandwich Rt 130 8,000 S of Main St Site Code: 20747 Χ -70.4995 Υ 41.7566 4 Poor to Fair 06/02/2014 Sandwich 3,979 Rt 130 Site Code: 3,500 **Edge Cracks** W of Pine St 21340 Χ -70.5090 Υ 41.7577 4 Poor to Fair 8/18/2015 Sandwich 9,968 Rt 130 7,600 N of Quaker Meetinghouse Rd Site Code: 20159 Υ 41.6967 Χ -70.4968 3 Fair to Good Sandwich 8/18/2015 12,771 Rt 130 Site Code: 9,700 N of Rt 6 21353 -70.4950 Υ 41.7436 Χ 5/27/2014 4 Poor to Fair 3,323 Sandwich Rt 130 3,200 S of Rt 6A Site Code: 20942 -70.5221 Υ 41.7671 Χ 3 Fair to Good 6/26/2013 9,858 Sandwich Rt 130 Mashpee 8,800 rutting, weathering @ Sand/Mash TL Site Code: 20160 -70.5093 Υ 41.6753 Χ 4 Poor to Fair 7/6/2011 Sandwich 4,279 Rt 130 3,300 Longitudinal and transverse cracking, rutting N of Tupper Rd Site Code: 20721 -70.5033 41.7593 Χ 6/18/2013 5,125 Good to Very Good Sandwich Rt 6A **Barnstable** 4,600 @ Sand/Barn TL Site Code: 20162 Χ -70.3967 Υ 41.7263 6/18/2012 Fair to Good 10,870 Sandwich Rt 6A 9,700 Linear and Transverse Cracking E of Tupper Rd (east end) Site Code: 20163 -70.4957 41.7614 Χ 6/18/2012 Poor to Fair 8,646 Sandwich Rt 6A 7,700 Transverse and linear cracking with some W of Tupper Rd (east end) Site Code: repairs 20164 Χ -70.4994 41.7646

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Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 6/2/2014 4 Poor to Fair 7,091 Sandwich **Cotuit Rd** Mashpee 6,300 @ Sand/Mash TL (Middle) Site Code: 20147 Χ -70.4749 Υ 41.6780 2 Good to Very Good 6/2/2014 Sandwich 7,586 Cotuit Rd Mashpee 6,800 Trans cracking @ Sand/Mash TL (N end) Site Code: 21284 Χ -70.4782 Υ 41.6848 3 Fair to Good 8/6/2014 Sandwich 4,223 Cotuit Rd Mashpee 3,200 @ Sand/Mash TL (S end) Site Code: 21283 -70.4687 Υ 41.6656 Χ 3 Fair to Good Sandwich 6/10/2015 1,248 **Country Club Rd** Site Code: 1,100 E of Harlow Rd 21355 Χ -70.4591 Υ 41.6835 2 6/2/2014 Good to Very Good 6,684 Sandwich Farmersville Rd 5,900 E of Cotuit Rd Site Code: 20939 Χ -70.4764 Υ 41.6963 4 Poor to Fair 7/29/2013 3,844 Sandwich Freezer Rd 2,900 cracking, weathering N of Tupper Rd Site Code: 20785 -70.5058 Υ 41.7685 3 Fair to Good 6/18/2013 Sandwich 3,997 **Great Hill Rd** 3,600 Sealed Cracks, Weathering N of Farmersville Rd Site Code: 20723 -70.4434 Χ 41.6910 3 06/08/2015 4,078 Fair to Good Sandwich Harlow Rd 3,600 E of Cotuit Rd Site Code: 7224 Χ -70.4695 41.6695 6/2/2014 Fair to Good 4,298 Sandwich Jan Sebastian Dr 3,800 sealed cracks E of Rt 130 Site Code: 20940 -70.4841 41.7183 Χ Υ 8/22/2011 3 Fair to Good 2,646 Sandwich **Jarves St** 2,000 Edge cracking in parking lane S of Rt 6A Site Code: 21266 Χ -70.4941 Υ 41.7590

Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 8/19/2013 4 Poor to Fair Sandwich 1,133 **Jarves St** 860 cracks, cracks sealed E of Willow Site Code: 21315 Χ -70.4928 Υ 41.7598 4 Poor to Fair 6/10/2015 Sandwich 1,043 Jones Ln 930 S of Rt 6A Site Code: 20968 Χ -70.4062 Υ 41.7301 8/14/2013 2 Good to Very Good Sandwich 2,825 Main St 2,100 E of Beale Av Site Code: 21314 -70.4919 Υ 41.7552 Χ 3 Fair to Good 6/6/2012 Sandwich 2,893 Main St 2,600 Minor potholes and weathering E of Rt 130 Site Code: 20720 -70.4991 Υ 41.7583 Χ 6/10/2015 3 Fair to Good 2,058 Sandwich **Newtown Rd Barnstable** 1,800 @ Sand/Barn TL Site Code: 20938 -70.4412 Υ 41.6817 Χ 4 Poor to Fair 06/08/2015 616 Sandwich **Old County Ln** 550 E of Jones Ln Site Code: 7117 -70.4053 Υ 41.7234 Χ 3 Fair to Good 8/14/2013 Sandwich 1,591 **Old County Rd** 1,200 sealed cracks, wear E of Old Mill Rd Site Code: 21313 -70.4327 41.7295 Χ 4 6/8/2015 439 Poor to Fair Sandwich Pinkham Rd 390 Site Code: S of Turtle Cove Rd 21354 -70.4684 41.7082 9/2/2015 Fair to Good 9,600 Sandwich **Quaker Meetinghouse Rd** 8,800 cracks sealed E of Cotuit Rd Site Code: 20148 -70.4813 41.7032 Χ 3 9/2/2015 Fair to Good 7,356 Sandwich **Quaker Meetinghouse Rd** 6,800 W of Cotuit Rd Site Code: 20149 Χ -70.4844 41.7005

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Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 8/5/2013 Fair to Good Mashpee 12,952 Rt 130 9,800 minor rutting, weathering N of Great Neck Rd North Site Code: 20264 Χ -70.4830 Υ 41.6489 3 Fair to Good 7/13/2015 Mashpee 7,746 Rt 130 **Barnstable** 5,900 @ Mash/Barn TL Site Code: 20265 Χ -70.4543 Υ 41.6392 6/25/2014 2 Good to Very Good Mashpee 12,165 Rt 130 10,800 W of S Sandwich Rd Site Code: 21107 -70.4762 Υ 41.6495 Χ 3 Fair to Good 8/7/2013 15,062 Mashpee Rt 151 11,400 minor rutting W of Market St Site Code: 21168 -70.4914 Υ 41.6182 Χ 3 7/7/2015 Fair to Good 15,721 Mashpee Rt 151 11,900 W of Mashpee Rotary Site Code: 20267 Χ -70.4891 Υ 41.6183 4 Poor to Fair 8/5/2013 20,255 Mashpee Rt 151 15,400 major rutting, wear E of Old Barnstable Rd Site Code: 20268 -70.5074 Υ 41.6170 Χ 8/6/2014 3 Fair to Good 23,767 Mashpee Rt 151 18,100 rutting W of Old Barnstable Rd Site Code: 20768 -70.5102 Χ 41.6167 3 Fair to Good 6/24/2014 19,418 Mashpee Rt 28 17,300 E of Donnas Ln Site Code: 20865 Χ -70.4895 Υ 41.6146 6/5/2013 Fair to Good 18,963 Mashpee Rt 28 16,900 Rutting W of Donnas Ln Site Code: 20269 -70.4901 41.6127 Χ Υ 4 6/17/2015 Poor to Fair 20,800 Mashpee Rt 28 **Barnstable** 18,500 @ Mash/Barn TL Site Code: 20270 -70.4604 Χ Υ 41.6336

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Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 7/23/2013 Fair to Good Yarmouth 1,123 **Pleasant St** 850 weathering, cracks W of Crosby St Site Code: 21320 -70.1895 Χ Υ 41.6620 2 Good to Very Good 8/6/2013 Yarmouth 7,078 Regional Av 5,400 E of Station Av Site Code: 20388 Χ -70.1906 Υ 41.6749 7/16/2013 3 Fair to Good Yarmouth 5,085 Seaview Av 3,900 Weathering Rutting S of Rt 28 Site Code: 21047 -70.2179 Υ 41.6502 Χ 3 Fair to Good 7/23/2013 Yarmouth 4,680 Setucket Rd 3,600 weathering W of North Dennis Rd Site Code: 20745 -70.1918 Υ 41.7122 2 7/16/2013 Good to Very Good 6,085 Yarmouth Setucket Rd **Dennis** 4,600 @ Yarm/Denn TL Site Code: 20838 -70.1859 Υ 41.7128 Χ 3 Fair to Good 7/23/2013 5,542 Yarmouth South St 4,200 weathering, rutting S of Old Main St Site Code: 20407 -70.2019 Υ 41.6574 Χ 3 Fair to Good 8/6/2013 Yarmouth 12,747 Station Av 9,700 weathering N of Long Pond Dr Site Code: 20408 -70.1929 41.6750 Χ 8/6/2013 14,744 Good to Very Good Yarmouth Station Av 11,200 N of Regional Av Site Code: 20412 Χ -70.1915 Υ 41.6743 8/6/2013 Good to Very Good 9,407 Yarmouth Station Av 7,100 N of Wood Rd Site Code: 20414 -70.1881 41.6705 Χ Υ 3 8/10/2015 Fair to Good 2,674 Yarmouth Strawberry Ln 2,000 S of Rt 6A Site Code: 7226 -70.2424 Χ Υ 41.7045

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Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions TOWN **ROUTE & LOCATION** Begin Date: **AADT** 3 6/10/2013 Fair to Good Harwich 10,103 Rt 28 9,000 Weathering, Linear Cracking E of Belmont Rd Site Code: 20505 Χ -70.1164 Υ 41.6700 3 Fair to Good 8/19/2013 Harwich 11,856 Rt 28 9,000 cracks, wear W of Belmont Rd Site Code: 20506 Χ -70.1182 Υ 41.6696 3 Fair to Good 8/20/2012 Harwich 10,133 Rt 28 Chatham 7,700 Cracking and rutting @ Harw/Chat TL (N end) Site Code: 20508 -69.9943 Υ Χ 41.7118 3 Fair to Good Harwich 07/28/2014 10,392 Chatham Rt 28 7,900 @ Harw/Chat TL (W end) Site Code: 20509 -70.0317 Υ Χ 41.6790 2 7/14/2014 Good to Very Good 10,718 Harwich Rt 28 8,100 E of Sisson Rd (Rt 39) Site Code: 20511 Χ -70.0916 Υ 41.6716 3 Fair to Good 6/10/2013 11,145 Harwich Rt 28 9,900 Weathering, Minor Rutting W of Sisson Rd (Rt 39) Site Code: 20512 -70.0943 Υ Χ 41.6710 3 Fair to Good 8/19/2013 Harwich 6,248 Rt 39 **Brewster** 4,700 cracks, wear @ Harw/Brew TL Site Code: 20515 -70.0065 Χ 41.7284 07/28/2014 11,084 Good to Very Good Harwich Rt 39 8,400 N of Queen Anne Rd Site Code: 20520 Χ -70.0306 41.7011 7/14/2014 Fair to Good 11,967 Harwich Rt 39 9,100 E of Rt 124 (Pleasant Lake Av) Site Code: 21091 -70.0746 41.6863 Χ 3 6/3/2014 Fair to Good 7,147 Harwich Rt 39 6,400 Seals on cracks E of Rt 137 Site Code: 20522 Χ -70.0219 Υ 41.7082

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Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 7/24/2013 Fair to Good 5,021 Chatham Shore Rd 3,800 crack sealing, minor rutting N of Main St Site Code: 20566 -69.9492 Χ Υ 41.6771 4 Poor to Fair 7/20/2015 Chatham 3,778 Stage Harbor Rd 2,900 S of Rt 28 Site Code: 20570 41.6817 Χ -69.9621 Υ 07/30/2014 3 Fair to Good Chatham 4,689 Stepping Stones Rd 3,600 E of Old Queen Anne Rd Site Code: 20571 -69.9739 Υ 41.6917 Χ 3 Fair to Good 08/12/2014 Chatham 2,164 Stony Hill Rd 1,600 Crack Seal / Pot Holes E of Rt 28 Site Code: 20572 Χ -69.9606 Υ 41.6974 08/12/2014 1 New 2,311 Chatham **Training Field Rd** 1,800 S of Echo Ln Site Code: 20573 Χ -69.9906 Υ 41.7076 3 Fair to Good 6/11/2012 2,923 **Brewster** Rt 124 2,600 Patching Some Cracks N of Rt 137 Site Code: 20580 -70.0827 Υ 41.7570 Χ 3 Fair to Good 6/12/2013 7,601 **Brewster** Rt 137 6,800 Rutting, Weathering N of Millstone Rd Site Code: 20582 -70.0545 Χ 41.7421 4 Poor to Fair 6/11/2012 3,014 **Brewster** Rt 137 2,700 Repairs Cracking and Rutting W of Rt 124 Site Code: 7142 Χ -70.0835 41.7554 Υ 8/19/2013 Poor to Fair 6,617 **Brewster** Rt 28 Orleans 5,000 rutting, cracks @ Brew/Orle TL Site Code: 20583 -69.9923 41.7294 Χ Υ Fair to Good 3 8/19/2014 16,908 **Brewster** Rt 6A **Orleans** 12,900 Cracking @ Brew/Orle TL Site Code: 20584 -70.0084 Χ Υ 41.7754

Printed: 4/13/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 6/12/2013 Fair to Good **Brewster** 11,976 Rt 6A 10,700 rutting, weathering E of Millstone Rd Site Code: 20585 Χ -70.0436 Υ 41.7731 4 Poor to Fair 7/15/2014 **Brewster** 14,185 Rt 6A 10,800 Heavy rutting E of Rt 124 Site Code: 20586 Χ -70.0825 Υ 41.7613 6/12/2013 4 Poor to Fair **Brewster** 9,879 Rt 6A 8,800 major rutting, cracks, weathering W of Rt 137 Site Code: 20587 -70.0889 Υ 41.7569 Χ 2 Good to Very Good 6/23/2015 **Brewster** 2,942 Freemans Way 2,600 E of Industrial Park Site Code: 20576 -70.0103 Υ 41.7363 Χ 2 6/11/2012 Good to Very Good 2,836 **Brewster** Freemans Way 2,500 W of Rt 6 Site Code: 20577 -70.0233 Υ 41.7372 4 Poor to Fair 6/11/2012 3,134 **Brewster** Millstone Rd 2,800 Cracking And Some Patching N of Rt 137 Site Code: 20579 -70.0536 Υ 41.7426 3 Fair to Good 6/23/2015 4,189 **Brewster** Millstone Rd 3,700 S of Rt 6A Site Code: 7144 -70.0440 Χ 41.7725 6/11/2012 4,812 Poor to Fair **Brewster** Satucket Rd 4,300 Cracking Repairs Rutting W of Red Top Rd Site Code: 20589 -70.1319 41.7322 Χ 7/15/2014 Fair to Good 5,650 **Brewster** Satucket Rd 4,300 W of Stony Brook Rd Site Code: 20782 -70.1150 41.7429 Χ 6/23/2015 3 Fair to Good 5,469 **Brewster Underpass Rd** 4,900 S of Rt 6A Site Code: 20594 -70.0663 Χ Υ 41.7647

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-70.1868

42.0532

Site Code: 20988

