

# Pavement Management 2018 Status Report

February 2019





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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 needs 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.



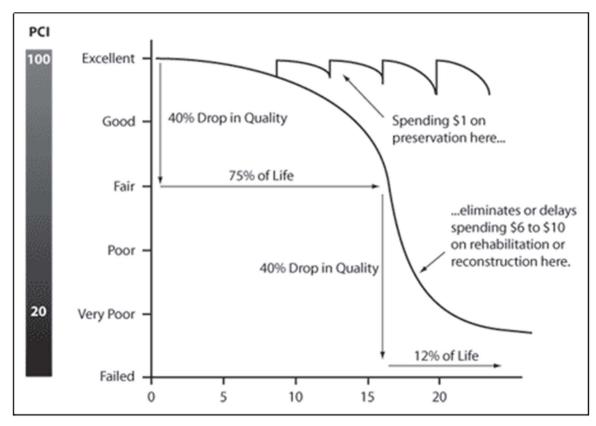


Figure 1 - Pavement Deterioration Curve

Source: Federal Highway Administration

### 1.2 EVALUATION CRITERIA FOR CCC DATA COLLECTION

The Cape Cod Commission has continued to collect pavement condition data since 2011 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 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' PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT ACTIVITIES

In 2015, the Town of Brewster published its "Pavement Management Plan." Prepared by the consultant CDM Smith, the plan included the following findings:

- The Town's overall Pavement Condition Index (PCI) was a 73.
- If no further money were spent on roadways for 10 years, that PCI would decline to 63.
- Performing all the work necessary on the roads as of the inventory date would cost in the order of magnitude of \$12 Million.



- Maintaining the existing PCI of 73 would cost approximately \$1.1 Million per year over the next 5 years.
- Continuing to spend at present levels (\$470K, if all went to roadway work) will result in a decline over the next 5 years to a PCI of 71. As it nears the critical PCI of 55, the overall condition will decline more rapidly.
- To reach a target PCI of 80 in 5 years, the Town would need to spend approximately \$2.3 Million per year.

The town has selected the software "MicroPaver" to perform inventory management, calculate Pavement Condition Index ratings, and other pavement management functions.

#### 1.3.2 DENNIS PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT 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 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 PAVEMENT MANAGEMENT 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 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 PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT ACTIVITIES

GHD was hired to develop a Town-wide paving plan with the goal of developing a longterm 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 PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT ACTIVITIES

Truro uses local knowledge to determine pavement repair priorities.

#### 1.3.10 YARMOUTH PAVEMENT MANAGEMENT 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 PAVEMENT MANAGEMENT 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' Pavement Management Techniques

Town	Pavement Management Technique
Barnstable	VHB Pavement Management System
Bourne	Local knowledge – as needed basis
Brewster	CDM Smith's MicroPaver system
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 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 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 need crack sealing or minor localized repair.
PREVENTIVE MAINTENANCE	76-85	Fair condition – pavement surface may need 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.

<sup>\*</sup>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 need 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**

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:

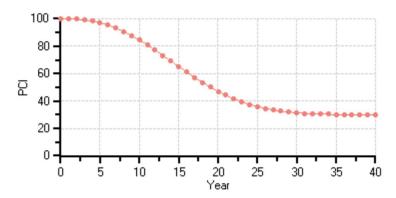


Figure 2 - Sample Deterioration Curve

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 PAVEMENT MANAGEMENT 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, Cape Cod Commission 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 using GPS-capable tablet computers. The following figure shows the roadways that the CCC staff collected data on in 2018.



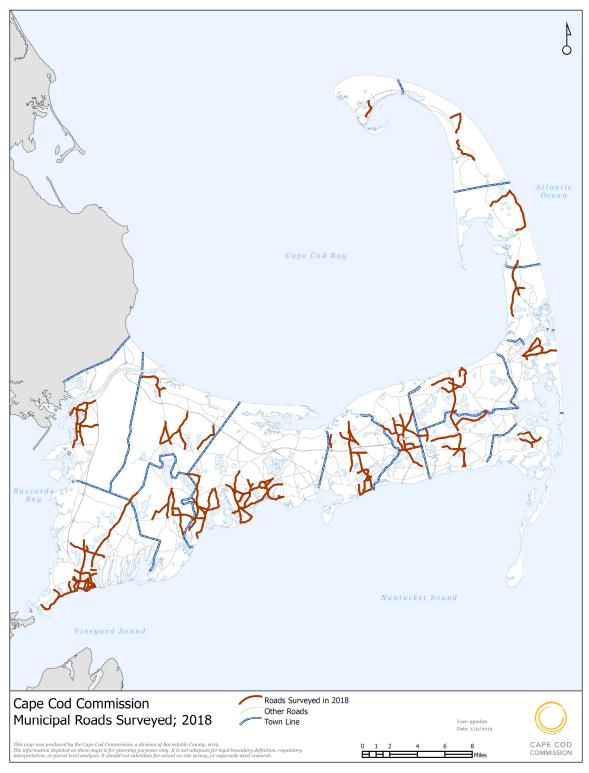


Figure  ${\bf 3}$  - Municipal Roads Surveyed in 2018



The following table provides a summary by town of the Cape Cod Commission's windshield survey data.

**Table 4 – Surveys of Pavement Condition - miles** 

Town	Very Good to Excellent	Good to Very Good	Fair to Good	Poor to Fair	Poor	Totals
Barnstable	9.2	51.8	40.7	8.8	1.0	111.6
Bourne	0.4	8.6	23.6	8.4	0.4	41.3
Brewster	4.2	5.9	11.0	4.6	0.8	26.5
Chatham	0.4	3.4	5.7	3.2	0.0	12.7
Dennis	3.7	29.8	9.6	2.2	0.0	45.3
Eastham	1.5	3.0	4.4	7.9	0.0	16.8
Falmouth	7.2	17.0	39.9	19.4	0.4	83.9
Harwich	1.3	19.8	13.3	8.6	0.2	43.1
Mashpee	0.0	4.2	19.0	4.7	1.7	29.5
Orleans	1.6	8.9	5.6	0.3	0.6	16.9
Provincetown	1.5	0.9	10.9	0.0	0.0	13.3
Sandwich	2.7	12.6	15.1	4.3	3.2	37.9
Truro	0.0	0.0	8.4	4.0	0.0	12.4
Wellfleet	0.5	10.4	7.0	1.5	0.0	19.5
Yarmouth	2.7	21.7	27.1	0.6	0.0	52.0
Total:	36.8	198.0	241.2	78.5	8.3	562.8

Source: latest data available from 2016-2018, collected by Cape Cod Commission

As shown in the table above, approximately 560 miles of roadway have been surveyed at least once as recently as 2018. The most common rating "Fair to Good" yielded over 240 miles. This is followed by 198 miles of "Good to Very Good", 78.5 miles of "Poor to Fair," over 36 miles for both "Very Good to Excellent" and approximately 8 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).



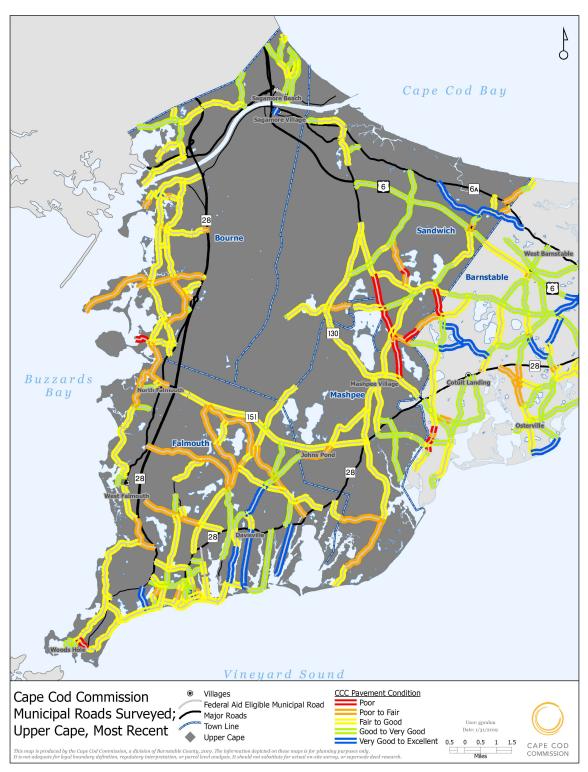


Figure 4 -Pavement Condition Surveys: Upper Cape



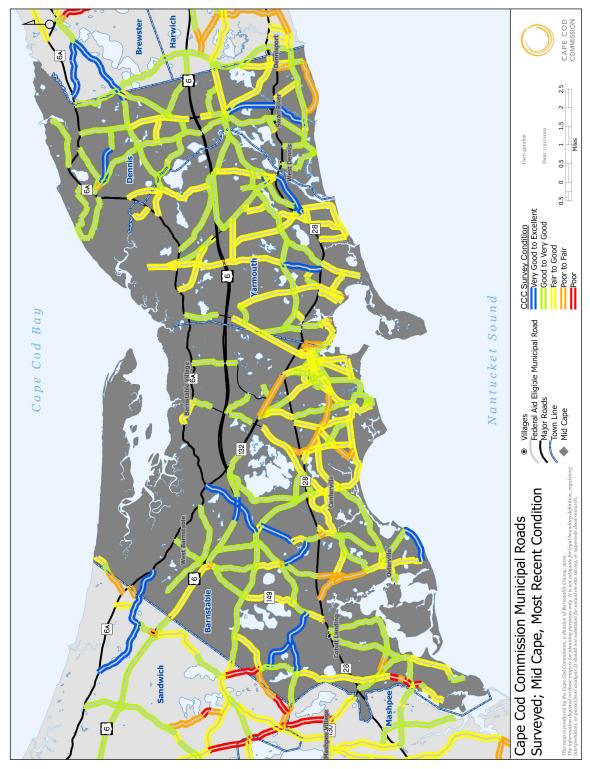


Figure 5 - Pavement Condition Surveys: Mid-Cape



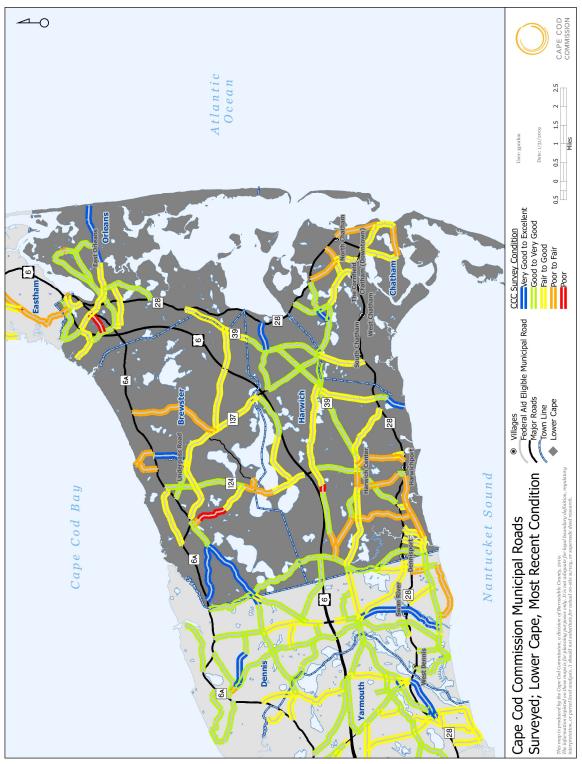


Figure 6 – Pavement Condition Surveys: Lower Cape





Figure 7 – Pavement Condition Surveys: Outer Cape
Source: latest data available from 2016-2018 collected by Cape Cod Commission



#### 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 subsequent years, this yielded pavement condition data at 646 unique locations throughout the Cape's 15 towns. Some locations were surveyed more than once over a period of years – 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 (ADT) 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	85	7,755	2.78	2.71
Bourne	52	4,945	2.81	2.76
Brewster	21	4,460	2.57	2.40
Chatham	41	5,205	3.12	3.14
Dennis	56	6,245	2.84	2.86
Eastham	22	2,490	3.32	2.85
Falmouth	68	6,815	2.90	2.88
Harwich	41	6,910	2.80	2.68
Mashpee	39	7,700	2.87	3.02
Orleans	35	5,660	2.69	2.56
Provincetown	28	4,140	2.86	2.88
Sandwich	65	5,510	2.98	2.89
Truro	40	2,380	3.15	2.93
Wellfleet	28	2,945	2.89	2.91
Yarmouth	68	7,370	2.72	2.72



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 666 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).



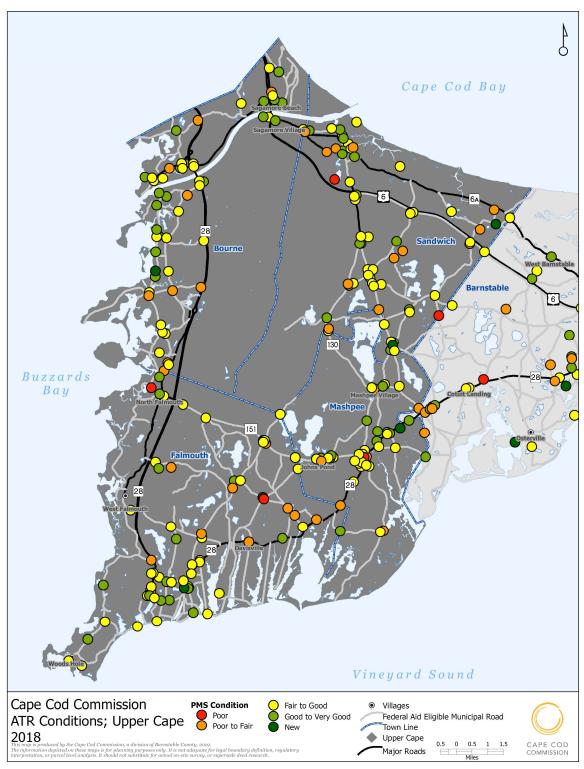


Figure 8 – Pavement Conditions at ATR Locations: Upper Cape



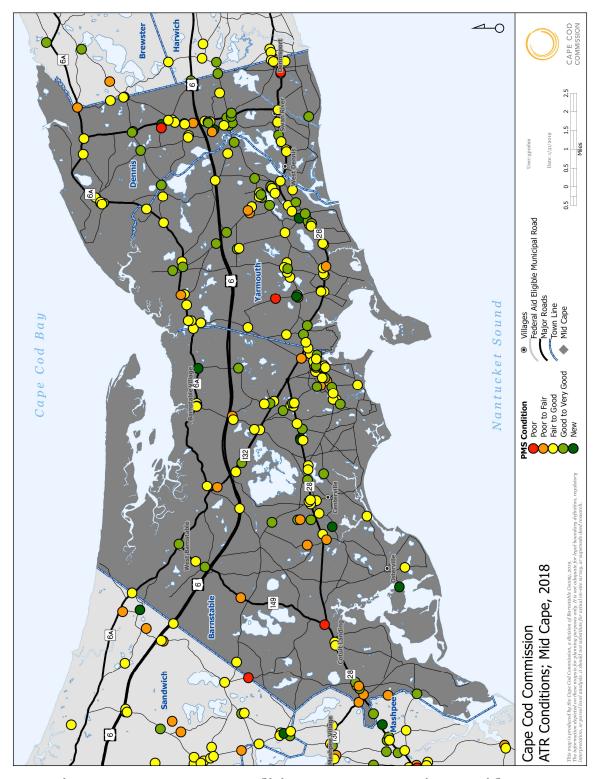


Figure 9 – Pavement Conditions at ATR Locations: Mid-Cape Source: latest data available up to 2018 collected by Cape Cod Commission



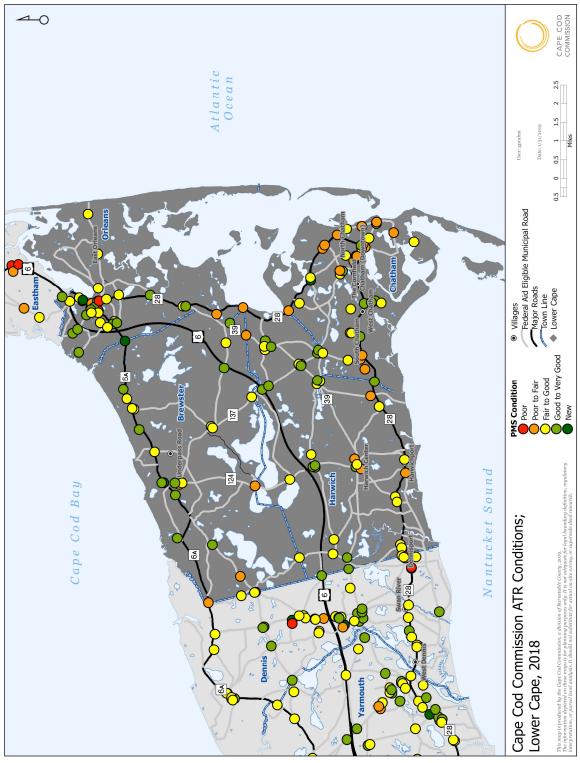


Figure 10 – Pavement Conditions at ATR Locations: Lower Cape



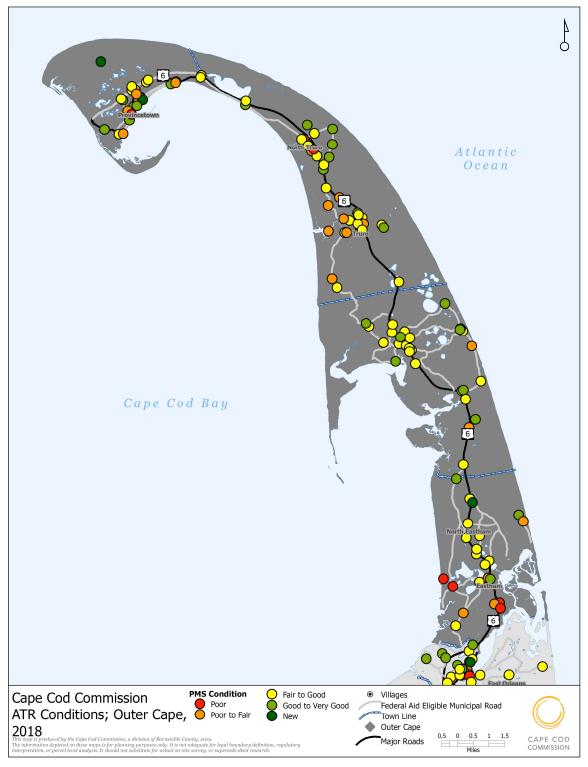


Figure 11 – Pavement Conditions at ATR Locations: Outer Cape



# 1.6 RECOMMENDATIONS FOR ACHIEVING IMPROVED PAVEMENT CONDITION

The pavement deterioration curve shown in Figure 1 demonstrates the advantages of maintaining good roads 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 can 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 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

Cape Cod Commission staff will continue advance PMS activities throughout the fifteen 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

Town	Road Name	Pavement Condition Notes		
Barnstable	BRIDGE STREET	Almost new, minor weathering /Large rut down one side, weathering		
Barnstable	BUMPS RIVER ROAD	/General weathering some cracks but still smooth /General weathering some filled cracks /Some cracks and weathering		
Barnstable	FULLER ROAD	Newer some weathering some cracks		
Barnstable	LINDEN AVENUE	Cracks and weathering /Newer, minor weathering		
Barnstable	MAIN STREET	/Cracks and weathering /Filled cracks /Many Cracks some filled and weathering /Newer mild weathering /Newer, minor weathering /Weathering and cracks		
Barnstable	MAIN STREET COTUIT	Cracks and weathering /Newer, few cracks /Some weathering		
Barnstable	OLD MILL ROAD	Newer mild weathering /Newer, weathering		
Barnstable	OLD OYSTER ROAD	large ruts running down road /Newer, few cracks		
Barnstable	OLD POST ROAD	Mild Weathering /Mild weathering		
Barnstable	OLD POST ROAD CENTERVILLE	Newer mild weathering /Newer, minor weathering		
Barnstable	OLD STAGE ROAD	Weathering and cracks		
Barnstable	OSTERVILLE WEST BARNSTABLE ROAD	/General weathering some filled cracks		
Barnstable	PARK AVENUE	Some cracks and weathering /Weathering and cracks		
Barnstable	PARKER ROAD	Many cracks /Many Cracks some filled and weathering /Weathering and cracks		
Barnstable	PHINNEYS LANE	Newer, minor weathering		
Barnstable	POND STREET OSTERVILLE	/Weathering and cracks		
Barnstable	PUTNAM AVENUE	Mild Weathering /Newer, few cracks		
Barnstable	SANTUIT NEWTOWN ROAD	Cracks some filled, weathering, patches /Weathering		
Barnstable	SANTUIT ROAD	Cracks and weathering /Newer pavement, minor weathering /No pavement, all dirt /Some large cracks, weathering /Very poor, cracks and holes /Weathering		
Barnstable	SCHOOL STREET	Almost new, occasional filled crack /Cracks and weathering		
Barnstable	SEA VIEW AVENUE	New pavement		
Barnstable	SOUTH COUNTY ROAD	Many Cracks some filled and weathering		
Barnstable	SOUTH MAIN STREET	/Newer mild weathering		
Barnstable	WAKEBY ROAD	Newer, some weathering		
Barnstable	WEST BAY ROAD	Large rut down one side, weathering		
Barnstable	WIANNO AVENUE	Newer some weathering		
Bourne	BEACH STREET	Lots of cracks		
Bourne	CLAY POND ROAD	Fair lots of filled cracks /Light to moderate weathering, filled cracks /Lots of cracks		
Bourne	COUNTY ROAD	General weathering and filled cracks /Light to moderate weathering, filled cracks		

Bourne	MASHNEE ROAD	Lots of filled cracks, patches, shoulder cracks /Smooth and even but weathered			
Bourne	MIDWAY ROAD	General weathering, many filled cracks, few holes /Light to moderate weathering, filled cracks			
Bourne	MONUMENT NECK ROAD	Smooth and even but weathered			
Bourne	OLD DAM ROAD	Half new half oldweathering and cracking /Major weathering, some cracking /Weatheringsome cracking. Mostly even			
Bourne	PRESIDENTS ROAD	Smooth and even but weathered			
Bourne	SHORE ROAD	/General weathering /General weathering minor cracking /General weathering, many filled cracks, few holes			
Bourne	TROWBRIDGE ROAD	General weathering minor cracking			
Brewster	FOSTER ROAD	Lots of patches and cracks bumpy			
Brewster	HARWICH ROAD	/Cracking weathering /Cracks and weathering, some wheel ruts /Minor weathering			
Brewster	LONG POND ROAD	/Cracking weathering /Minor weathering			
Brewster	LOWER ROAD	Weathering minor cracks shoulder cracks			
Brewster	POINT OF ROCKS ROAD	Lots of patches and cracks bumpy			
Brewster	TUBMAN ROAD	Cracking weathering			
Brewster	UNDERPASS ROAD	Very smooth no weathering			
Chatham	CROWELL ROAD	Lots of crack filling potholes weathering			
Chatham	OLD COMERS ROAD	Minor weathering			
Chatham	OLD QUEEN ANNE ROAD	/Minor cracking and patches			
Chatham	STEPPING STONE ROAD	Minorweathering /Weathering minorpatching			
Chatham	STONY HILL ROAD	Lots of filled cracks pot holes weathering			
Dennis	AIRLINE ROAD	Minor weathering mostly very good /Weathering, some cracks			
Dennis	BOB CROWELL ROAD	Lots of weathering And discoloration			
Dennis	EAST WEST DENNIS ROAD	/Cracks but mostly fair			
Dennis	HIGHBANK ROAD	Mostly Weathering			
Dennis	MAIN STREET	Mostly Weathering			
Dennis	MAYFAIR ROAD	Mostly Weathering /Some weathering			
Dennis	OLD BASS RIVER ROAD	Mostly Weathering			
Dennis	OLD CHATHAM ROAD	Cracks but mostly fair /Filled cracks /Weathering, some cracks			
Dennis	UPPER COUNTY ROAD	/Mostly Weathering			
Eastham	BRACKETT ROAD	Halfnew half old weathering minor cracks			
Eastham	HERRING BROOK ROAD	Major cracks uneven patchy bumpy			

Eastham	MASSASOIT ROAD	/Bumpy heavy weathering /Weathering minor cracks			
Eastham	OLD COUNTY ROAD	Big unevenpatch /Halfnew half old weathering minor cracks			
Falmouth	BRICK KILN ROAD	Filled cracks, weathering /Filled in cracks, minor weathering /Weathering and filled crack /Weathering, filled and not filled cracks			
Falmouth	CLINTON AVENUE	Filled cracks and weathering /Filled cracks, minor weathering,			
Falmouth	ELYSIAN AVENUE	Cracking, patches, uneven			
Falmouth	FALMOUTH-SANDWICH ROAD	General weathering minor cracking			
Falmouth	FALMOUTH HEIGHTS ROAD	Good pavement /Good pavement /Patchwork of poor to very good pavement			
Falmouth	GIFFORD STREET	Minor weathering /Minor weathering /No major cracks or weathering /Weathering and cracks /Weathering, no major cracks			
Falmouth	GIFFORD STREET EXTENSION	Minor weathering			
Falmouth	GRAND AVENUE	Good pavement /Minor cracks			
Falmouth	HARBOR HILL ROAD	Many holes, cracks, uneven pavement.			
Falmouth	HATCHVILLE ROAD	Cracks and uneven pavement			
Falmouth	JERICHO PATH	/Good pavement /Heavy weathering half paved half not			
Falmouth	JONES ROAD	Holes and weathering /Weathering and cracks			
Falmouth	KATHERINE LEE BATES ROAD	Filled cracks some weathering			
Falmouth	LOCUSTFIELD ROAD	Weathering, filled and not filled cracks			
Falmouth	MAIN STREET	Good pavement /No major cracks or weathering			
Falmouth	MARAVISTA AVENUE	Minor weathering			
Falmouth	MILL ROAD	New road, very nice!			
Falmouth	NOBSKA ROAD	Weathering but no major cracks			
Falmouth	OYSTER POND ROAD	Filled cracks, minor weathering, /Some minor cracks and weathering			
Falmouth	RANDOLPH STREET	Minor weathering			
Falmouth	SANDWICH ROAD	Cracks and uneven pavement /Fair to good patched cracks /Filled in cracks, minor weathering /General weathering minor cracking			
Falmouth	SCRANTON AVENUE	Filled cracks and weathering /Large wheel ruts, cracks and weathering /Weathering and filled cracks			
Falmouth	SHORE STREET	Filled cracks, minor weathering,			
Falmouth	SPRING BARS ROAD	Minor weathering			
Falmouth	SURF DRIVE	Filled cracks, minor weathering, /Some minor cracks			
Falmouth	WALKER STREET	Almost new pavement. /Large cracks, weathering. /Minor weathering			
Falmouth	WORCESTER AVENUE	/Patchwork of poor to very good pavement			
Falmouth	WORCESTER COURT	/Minor weathering /Patchwork of poor to very good pavement			

BANK STREET	Patching, cracking, minor pot holes			
FREEMAN STREET	Pot holes cracking			
LONG POND DRIVE	Cracking weathering more fair than good /Very minor cracking o shoulders			
MAIN STREET	Cracking, rutting, Minor potholes /Minor cracking and patching /Minor weathering			
OLD CHATHAM ROAD	Weathering, some cracks			
PLEASANT LAKE AVENUE	A few crack/hole along shoulder /Cracks and weathering, some wheel ruts /Weathering			
QUEEN ANNE ROAD	/Newly paved one side, minor weathering /Patching, pot holes, alligator cracks /Under construction			
ROUTE 137	Weathering and cracks			
SISSON ROAD	Minor patching			
ASHERS PATH EAST	Minor weathering			
FALMOUTH-SANDWICH ROAD	General weathering minor cracking			
GREAT NECK ROAD	Some Weathering /Weathering			
LOWELL ROAD	Weathering /Weathering and cracks			
MASHPEE NECK ROAD	Almost new, mild weathering			
MEETINGHOUSE ROAD	Many filled cracks, weathering			
OLD BARNSTABLE ROAD	Weathering and cracks			
ORCHARD ROAD	Some weathering and minor rutting			
QUINAQUISSET AVENUE	Almost new /Almost new, occasional filled crack			
WAKEBY ROAD	Newer, some weathering			
BEACH ROAD	New			
BRICK HILL ROAD	Abundant cracks, some sealed, weathering /minor weathering/almost new /New, but lumpy /Very new, but lumpy - may just be cover layer			
HOPKINS LANE	Minor weathering /minor weathering/almost new /New, but lumpy			
MAIN STREET	Mild weathering and filled cracks /New			
MONUMENT ROAD	Almost new			
TONSET ROAD	minor weathering/almost new			
SHANK PAINTER ROAD	Patchy weathering			
BEALE AVENUE	Pretty new			
CHASE ROAD	Patched pavement, cracks and holes			
1	Weathering some wear			
COTUIT ROAD	Weathering some wear			
	FREEMAN STREET  LONG POND DRIVE  MAIN STREET  OLD CHATHAM ROAD  PLEASANT LAKE AVENUE  QUEEN ANNE ROAD  ROUTE 137  SISSON ROAD  ASHERS PATH EAST  FALMOUTH-SANDWICH ROAD  GREAT NECK ROAD  NORTH  LOWELL ROAD  MASHPEE NECK ROAD  OLD BARNSTABLE ROAD  ORCHARD ROAD  QUINAQUISSET AVENUE  WAKEBY ROAD  BEACH ROAD  BEACH ROAD  HOPKINS LANE  MAIN STREET  MONUMENT ROAD  SHANK PAINTER ROAD  BEALE AVENUE			

Sandwich	FARMERSVILLE ROAD	Weathering some wear		
Sandwich	FORESTDALE ROAD	/Weathering some wear		
Sandwich	GREAT HILL ROAD	Mild weathering /Patched pavement, cracks and holes		
Sandwich	MAIN STREET	General weathering, filled cracks /Pretty new		
Sandwich	PINKHAM ROAD	Filled cracks /No pavement, holes, uneven, pretty bad /Pavement is old, cracks and weathering /Pavement is old, weathering, big cracks /Weathering, old pavement		
Sandwich	QUAKER MEETING HOUSE ROAD	Cracks filled and weathering /Filled cracks /Weathering		
Sandwich	STOWE ROAD	Large holes, cracks, no yellow line		
Sandwich	TUPPER ROAD	General weathering, filled cracks /Minor weathering, few filled cracks		
Sandwich	WATER STREET	/General weathering, filled cracks		
Truro	CASTLE ROAD	/Weathering minor cracking		
Wellfleet	GROSS HILL ROAD	Weathering filledcracks shouldercracks		
Wellfleet	LECOUNT HOLLOW ROAD	Minor weather near route 6		
Wellfleet	OCEANVIEW DRIVE	Minor weather near route 6 /Weathering filledcracks shouldercracks		
Wellfleet	WEST ROAD	Bumpy heavy weathering /Perfect		
Yarmouth	CENTER STREET	Filled Cracks and weathering		
Yarmouth	MAYFAIR ROAD	Some weathering		
Yarmouth	OLD CHURCH STREET	Filled cracks /Filled Cracks and weathering		
Yarmouth	OLD TOWN HOUSE ROAD	Varying levels of weatheringminor cracking		
Yarmouth	PLAYGROUND LANE	Filled cracks		
Yarmouth	STRAWBERRY LANE	/Heavy weathering		
Yarmouth	UNION STREET	Some cracks but good otherwise		
Yarmouth	WEST YARMOUTH ROAD	Few cracks / Heavy weathering / Overpass many cracks, rest of road good		
Yarmouth	WHITE ROCK ROAD	Heavy weathering		

## APPENDIX -

Cape Cod Commission ATR Location Data

Χ

-70.5419

41.7839

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 Fair to Good 6/28/2016 5,196 **Bourne** Rt 3A **Plymouth** 4,600 S of Bour/Plym TL Site Code: 20125 -70.5439 41.7966 Χ Υ 2 Good to Very Good 7/17/2012 **Bourne** 7,748 **Plymouth** Rt 3A 5,900 S of Bour/Plym TL Site Code: 20125 -70.5439 Υ Χ 41.7966 7/18/2011 4 Poor to Fair **Bourne** 8,098 **Plymouth** Rt 3A 6,200 Longitudinal, transverse, edge, and alligator S of Bour/Plym TL Site Code: cracking 20125 -70.5439 Υ 41.7966 Х 4 Poor to Fair 7/12/2011 **Bourne** 7,846 **Plymouth** Rt 3A 6,000 transverse, longitudinal, edge, and alligator S of Bour/Plym TL Site Code: cracking 20125 -70.5439 Υ 41.7966 Χ Poor to Fair 8/9/2017 4 6,887 Bourne Rt 3A 5,200 weathered, trans/long cracks, minor rutting N of Meetinghouse Rd/Rt 3 NB On-Ramp Site Code: 20126 Χ -70.5428 Υ 41.7856 2 Good to Very Good 8/18/2015 20,320 **Bourne** Rt 6 Wareham 15,400 @ Bour/Ware TL Site Code: 20817 -70.6212 Υ 41.7470 Χ 08/26/2014 4 Poor to Fair 8,371 **Bourne** Rt 6 Bypass 6,400 Cracking W of Belmont Circle Site Code: 20127 -70.6060 41.7509 4 Poor to Fair 7/31/2013 8,043 **Bourne** Rt 6 Bypass 6,100 major cracking W of Belmont Circle Site Code: 20127 -70.6060 41.7509 7/17/2012 4 Poor to Fair 9,342 **Bourne** Rt 6 Bypass 7,100 Linear and transverse cracking W of Belmont Circle Site Code: 20127 -70.6060 41.7509 3 08/26/2014 Fair to Good 6,934 **Bourne** Rt 6 Bypass 5,300 **E of Memorial Circle** Site Code: 21263 -70.6168 Χ 41.7466

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION TOWN** Begin Date: **AADT** 3 Fair to Good 6/12/2012 3,633 **Bourne** County Rd 3,200 Cracking S of Barlows Landing Rd Site Code: 20109 -70.6050 Χ Υ 41.6945 3 Fair to Good 7/18/2011 **Bourne** 3,748 County Rd 2,800 Some minor cracking, repairs are good N of Clay Pond Rd Site Code: besides this 20930 Υ Χ -70.6082 41.7189 3 6/12/2012 Fair to Good **Bourne** 3,873 County Rd 3,400 Linear Cracking S of Old Dam Rd Site Code: 20110 -70.6008 Υ 41.7311 Χ 3 Fair to Good 7/17/2012 **Bourne** 3,663 **County Rd** 2,800 Linear Cracks and Patching S of Valley Bars Rd Site Code: 20112 -70.6073 Υ 41.7033 Χ 2 7/11/2016 Good to Very Good 1,088 **Bourne Emmons Rd** Site Code: 830 W of Shore Rd 21389 Χ -70.6151 Υ 41.7123 2 Good to Very Good 7/11/2016 165 **Bourne** Evergreen Hill Rd 130 Site Code: W of Elizabeth Av 21391 -70.6144 41.7227 Χ Υ 7/12/2016 3 Fair to Good 4,804 **Bourne** Head of the Bay Rd 3,700 Rutting **N of Belmont Circle** Site Code: 20114 -70.5986 41.7530 Χ 4 Poor to Fair 6/27/2012 5,302 **Bourne** Head of the Bay Rd 4,700 cracking N of Belmont Circle Site Code: 20114 -70.5986 41.7530 7/12/2011 Good to Very Good 4,682 **Bourne** Head of the Bay Rd 3,600 E of Plymouth Ln Site Code: 20113 -70.6016 41.7684 Χ 3 7/12/2011 Fair to Good 2,264 **Bourne Herring Pond Rd** 1,700 longitudinal cracking N of Bournedale Rd Site Code: 20769 -70.5615 Χ 41.7804

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION TOWN** Begin Date: **AADT** 2 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 Χ Υ 3 Fair to Good 7/6/2011 **Bourne** 4,006 **Old Plymouth Rd** 3,000 Edge cracking S of Norris Rd Site Code: 7121 -70.5380 Χ Υ 41.7948 3 7/11/2016 Fair to Good **Bourne** 990 Red Brook Harbor Rd Site Code: 750 W of Shore Rd 21384 -70.6113 Υ 41.6755 Χ 2 Good to Very Good 7/29/2013 **Bourne** 28,396 Sandwich Rd 21,600 W of Rt 6 Access Ramp Site Code: 20137 -70.5479 Υ 41.7743 Fair to Good 7/31/2013 3 5,134 Bourne Sandwich Rd 3,900 rutting under Bourne Bridge Site Code: 20136 Χ -70.5877 Υ 41.7449 3 Fair to Good 8/21/2018 19,453 **Bourne** Sandwich Rd 14,800 Mild weathering, cracks W of Sagamore Bridge Site Code: 7118 -70.5446 Υ 41.7742 4 Poor to Fair 7/8/2015 19,650 **Bourne** Sandwich Rd 14,900 W of Sagamore Bridge Site Code: 7118 -70.5446 41.7742 Poor to Fair 6/12/2012 16,644 **Bourne** Sandwich Rd 14,800 Cracks on sides and Transverse Cracking W of Sagamore Bridge Site Code: 7118 -70.5446 41.7742 7/31/2013 Good to Very Good 22,817 **Bourne Sandwich Rd Connector** 17,300 E of Bourne Rotary Site Code: 7320 -70.5852 41.7446 Χ 3 7/11/2016 Fair to Good 1,991 **Bourne** Scraggy Neck Rd 1,500 Site Code: W of Depot Rd 21383 -70.6134 Χ 41.6660

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 6/24/2013 Fair to Good **Bourne** 3,771 Shore Rd 3,400 Cracking, Weathering N of Barlows Landing Rd Site Code: 20138 Χ -70.6193 Υ 41.6938 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 7/11/2016 2 Good to Very Good **Bourne** 5,423 Shore Rd 4,100 N of Beach St Site Code: 7120 -70.6134 Υ 41.7200 Χ 3 Fair to Good 7/8/2015 **Bourne** 5,390 Shore Rd 4,100 N of Beach St Site Code: 7120 -70.6134 Υ 41.7200 3 Fair to Good 7/31/2013 5,232 Bourne Shore Rd 4,000 weathering, minor rutting N of Beach St Site Code: 7120 Χ -70.6134 Υ 41.7200 2 Good to Very Good 7/6/2011 5,515 **Bourne** Shore Rd 4,200 N of Beach St Site Code: 7120 -70.6134 41.7200 Υ 7/11/2016 2 Good to Very Good **Bourne** 4,071 Shore Rd 3,100 Site Code: S of Bennets Neck Dr 21386 -70.6155 41.7010 Fair to Good 6/28/2016 2,992 **Bourne** Shore Rd 2,700 Small rutting & cracking N of County Rd Site Code: 7119 -70.6097 41.6749 7/8/2015 Poor to Fair 3,214 **Bourne** Shore Rd 2,400 N of County Rd Site Code: 7119 41.6749 -70.6097 Χ 3 7/11/2016 Fair to Good 3,886 **Bourne** Shore Rd 3,000 Site Code: N of Thaxter Rd 21385 -70.6123 Χ 41.6789

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 3 8/21/2018 Fair to Good **Bourne** 7,339 Trowbridge Rd 5,600 General weathering, patches W of Bourne Rotary Site Code: 20141 -70.5876 41.7429 Χ Υ 4 Poor to Fair 8/9/2017 **Bourne** 7,511 Trowbridge Rd 5,700 weathered, rutting, crackseal, Inr, trans cracks W of Bourne Rotary Site Code: 20141 Υ Χ -70.5876 41.7429 7/12/2016 2 Good to Very Good **Bourne** 7,426 Trowbridge Rd 5,600 Some rutting W of Bourne Rotary Site Code: 20141 -70.5876 Υ 41.7429 Χ 3 Fair to Good 08/26/2014 **Bourne** 8,277 Trowbridge Rd 6,300 W of Bourne Rotary Site Code: 20141 -70.5876 Υ 41.7429 Χ 6/12/2012 3 Fair to Good 8,627 Bourne Trowbridge Rd 7,700 Cracks and repairs W of Bourne Rotary Site Code: 20141 Χ -70.5876 Υ 41.7429 3 Fair to Good 7/18/2011 7,159 **Bourne** Trowbridge Rd 5,400 Some minor cracking, repairs look good W of Bourne Rotary Site Code: besides this 20141 -70.5876 41.7429 Υ 7/11/2016 1 New **Bourne** 254 Valley Bars Cir 190 Site Code: W of Shore Rd 21387 -70.6153 41.7037 Poor to Fair 6/7/2017 4,508 **Bourne** Waterhouse Rd 4,000 Transverse crack, minor rutting, lines faded S of Cotuit Rd Site Code: 21192 -70.5952 41.7384 08/26/2014 3 Fair to Good 4,171 **Bourne** Waterhouse Rd 3,200 S of Cotuit Rd Site Code: 21192 -70.5952 41.7384 Χ Υ 3 7/11/2016 Fair to Good 530 **Bourne Worcester Av** 400 Site Code: Cracks and rutting W of Thomas Philbrick Rd 21390 Χ -70.6145 41.7195

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 1 7/23/2012 New Sandwich 5,977 Rt 6A **Barnstable** 4,500 @ Sand/Barn TL Site Code: 20162 Χ -70.3967 Υ 41.7263 2 Good to Very Good 7/25/2011 Sandwich 5,758 Rt 6A **Barnstable** 4,400 @ Sand/Barn TL Site Code: 20162 Χ -70.3967 Υ 41.7263 6/18/2012 3 Fair to Good Sandwich 10,870 Rt 6A 9,700 Linear and Transverse Cracking E of Tupper Rd (east end) Site Code: 20163 -70.4957 Υ 41.7614 Χ 3 Fair to Good Sandwich 6/28/2016 8,988 Rt 6A 8,000 Cracking & rutting W of Tupper Rd (east end) Site Code: 20164 -70.4994 Υ 41.7646 Χ 6/18/2012 4 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 -70.4994 Υ 41.7646 4 Poor to Fair 6/10/2015 1,228 Sandwich **Artisan Way** 1,100 Site Code: E of Rt 130 21356 -70.5090 Υ 41.6763 2 Good to Very Good 6/1/2016 Sandwich 1,668 **Boardley Rd** 1,500 W of Harlow Rd Site Code: 7223 -70.4594 41.6846 6/18/2013 1,537 Poor to Fair Sandwich **Boardley Rd** 1,400 Rutted, Sealed Cracks W of Harlow Rd Site Code: 7223 Χ -70.4594 Υ 41.6846 6/14/2016 3 Fair to Good 5,416 Sandwich Chase Rd 4,800 Site Code: Cracking just south of tubes S of Rt 6 EB Ramps 21403 -70.4213 41.7153 4 07/31/2018 Poor to Fair 4,354 Sandwich Chase Rd 3,300 Big cracks and general weathering S of Service Rd Site Code: 20143 Χ -70.4217 Υ 41.7145

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions TOWN ROUTE & LOCATION** Begin Date: **AADT** 3 Fair to Good 6/14/2016 Sandwich 4,264 Chase Rd 3,800 Some cracking S of Service Rd Site Code: 20143 Χ -70.4217 Υ 41.7145 3 Fair to Good 06/08/2015 Sandwich 3,785 Chase Rd 3,400 S of Service Rd Site Code: 20143 Χ -70.4217 Υ 41.7145 8/7/2013 2 Good to Very Good Sandwich 10,882 Cotuit Rd 8,300 S of Rt 130 Site Code: 20146 -70.4887 Υ 41.7152 Χ 3 Fair to Good 6/2/2014 Sandwich 14,880 Cotuit Rd Site Code: 13,200 Trans cracking N of Farmersville Rd 21335 -70.4819 Υ 41.6968 8/6/2014 3 Fair to Good 9,702 Sandwich Cotuit Rd Site Code: 7,400 crack seal S of Farmersville Rd 21336 Χ -70.4810 Υ 41.6956 3 Fair to Good 9/2/2015 14,311 Sandwich Cotuit Rd 13,200 N of Quaker Meetinghouse Rd Site Code: 20144 -70.4846 Υ 41.7032 2 Good to Very Good 7/6/2011 Sandwich 18,172 Cotuit Rd 13,800 N of Quaker Meetinghouse Rd Site Code: 20144 -70.4846 41.7032 Χ 3 9/2/2015 15,463 Fair to Good Sandwich Cotuit Rd 14,200 S of Quaker Meetinghouse Rd Site Code: 20145 Χ -70.4833 41.6994 6/6/2012 Good to Very Good 14,775 Sandwich Cotuit Rd 13,100 S of Quaker Meetinghouse Rd Site Code: 20145 -70.4833 41.6994 Χ 3 08/06/2014 Fair to Good 7,504 Sandwich Cotuit Rd 5,700 Crack Seal / Rutting N of S Sandwich Rd Site Code: 21088 -70.4708 Χ 41.6699

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 7/25/2011 Poor to Fair Sandwich 4,279 **Cotuit Rd Mashpee** 3,300 longitudinal & edge cracking; raveling @ Sand/Mash TL (S end) Site Code: 21283 Χ -70.4687 Υ 41.6656 3 Fair to Good 6/10/2015 Sandwich 1,254 **Country Club Rd** 1,100 Site Code: E of Harlow Rd 21355 Χ -70.4591 Υ 41.6835 6/4/2018 3 Fair to Good Sandwich 5,944 Farmersville Rd 5,300 Minor weathering E of Cotuit Rd Site Code: 20939 -70.4764 Υ 41.6963 Χ 2 Good to Very Good 6/2/2014 Sandwich 6,684 Farmersville Rd 5,900 E of Cotuit Rd Site Code: 20939 -70.4764 Υ 41.6963 Χ 6/14/2016 3 Fair to Good 943 Sandwich Freeman Av Site Code: 840 Cracking E of Knott Av 21397 Χ -70.4905 Υ 41.7714 3 Fair to Good 6/28/2016 3,717 Sandwich Freezer Rd 3,300 N of Tupper Rd Site Code: 20785 -70.5058 Υ 41.7685 4 Poor to Fair 7/29/2013 Sandwich 3,844 Freezer Rd 2,900 cracking, weathering N of Tupper Rd Site Code: 20785 -70.5058 41.7685 3 Fair to Good 6/18/2013 3,997 Sandwich **Great Hill Rd** 3,600 Sealed Cracks, Weathering N of Farmersville Rd Site Code: 20723 Χ -70.4434 41.6910 6/7/2017 Fair to Good 4,243 Sandwich **Harlow Rd** 3,800 crack seal, weathering, paint fading E of Cotuit Rd Site Code: 7224 -70.4695 41.6695 Χ 3 06/08/2015 Fair to Good 4,078 Sandwich **Harlow Rd** 3,600 E of Cotuit Rd Site Code: 7224 Χ -70.4695 Υ 41.6695

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **TOWN ROUTE & LOCATION** Begin Date: **AADT** 2 8/18/2015 Good to Very Good Sandwich 9,863 **Quaker Meetinghouse Rd** 7,500 S of Rt 6 EB Ramps Site Code: 20152 -70.4578 41.7295 Χ Υ Fair to Good 3 9/2/2015 Sandwich 9,600 **Quaker Meetinghouse Rd** 8,800 cracks sealed E of Cotuit Rd Site Code: 20148 -70.4813 Χ 41.7032 6/6/2012 3 Fair to Good Sandwich 9,965 **Quaker Meetinghouse Rd** 8,900 Minor potholes and weathering E of Cotuit Rd Site Code: 20148 -70.4813 41.7032 Χ Υ 3 9/2/2015 Fair to Good Sandwich 7,356 **Quaker Meetinghouse Rd** 6,800 W of Cotuit Rd Site Code: 20149 -70.4844 41.7005 7/6/2011 4 Poor to Fair 11,103 Sandwich **Quaker Meetinghouse Rd** 8,400 Deep rutting, longitudinal cracking W of Cotuit Rd Site Code: 20149 Χ -70.4844 41.7005 2 Good to Very Good 6/6/2012 10,138 Sandwich **Quaker Meetinghouse Rd** 9,000 S of Kiahs Way Site Code: 21267 -70.4667 41.7161 Χ 3 Fair to Good 6/8/2016 Sandwich 8,000 **Quaker Meetinghouse Rd** 7,100 E of Peters Pond Dr Site Code: 20151 -70.4936 Χ 41.6969 Fair to Good 6/6/2012 7,901 Sandwich **Quaker Meetinghouse Rd** 7,000 Small Cracks and Rutting E of Peters Pond Dr Site Code: 20151 -70.4936 41.6969 7/6/2011 Fair to Good 7,511 Sandwich **Quaker Meetinghouse Rd** 5,700 one small longitudinal crack, holes in the curb E of Peters Pond Dr Site Code: 20151 41.6969 -70.4936 Χ 3 7/31/2018 Fair to Good 10,643 Sandwich **Quaker Meetinghouse Rd** 8,100 Site Code: Minor weathering, some filled cracks S of Service Rd 21401 Χ -70.4579 41.7289

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Χ

-70.6198

Υ

41.5585

20217

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION** TOWN Begin Date: **AADT** 6/11/2014 4 Poor to Fair **Falmouth** 14,864 Rt 28 13,200 Heavy Rutting / Crack seal N of Lakeview Av Site Code: 20217 41.5585 Χ -70.6198 Υ 3 Fair to Good 8/12/2013 **Falmouth** 16,707 Rt 28 12,700 cracks, minor rutting N of Lakeview Av Site Code: 20217 Χ -70.6198 Υ 41.5585 3 Fair to Good 7/31/2012 **Falmouth** 16,870 Rt 28 12,800 Rutting N of Lakeview Av Site Code: 20217 -70.6198 Υ 41.5585 Χ 4 Poor to Fair 7/20/2011 **Falmouth** 18,104 Rt 28 13,800 Longitudinal and block cracking N of Lakeview Av Site Code: 20217 -70.6198 Υ 41.5585 Χ 2 08/26/2014 Good to Very Good 5,280 **Falmouth** Rt 28 4,000 E of Locust St Site Code: 20845 -70.6211 Υ 41.5545 Χ 3 Fair to Good 8/4/2014 18,415 **Falmouth** Rt 28 14,000 E of Maravista Ext Site Code: 7210 Υ -70.5899 41.5704 Χ 3 Fair to Good 6/11/2014 **Falmouth** 15,995 Rt 28 14,200 Site Code: W of Post Office Rd 21331 -70.6181 Χ 41.5533 8/7/2013 16,848 Good to Very Good **Falmouth** Rt 28 12,800 E of Sandwich Rd Site Code: 20220 Χ -70.5946 Υ 41.5683 6/17/2014 Good to Very Good 11,365 **Falmouth** Rt 28 10,100 W of Shore Rd Site Code: 20824 -70.6140 41.5521 Χ Υ 1 8/7/2017 New 17,084 **Falmouth** Rt 28 13,000 new E of Spring Bars Rd Site Code: 20844 Χ -70.5997 41.5578

Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 8/1/2016 Fair to Good **Falmouth** 17,147 Rt 28 13,000 Cracking on shoulder E of Spring Bars Rd Site Code: 20844 -70.5997 Χ Υ 41.5578 3 Fair to Good 6/17/2014 **Falmouth** 17,361 Rt 28 15,500 E of Spring Bars Rd Site Code: 20844 Χ -70.5997 Υ 41.5578 3 Fair to Good 8/7/2013 **Falmouth** 18,655 Rt 28 14,200 weathering wear E of Spring Bars Rd Site Code: 20844 -70.5997 Υ 41.5578 Χ 3 Fair to Good 7/24/2012 **Falmouth** 18,810 Rt 28 14,300 Linear Cracking E of Spring Bars Rd Site Code: 20844 -70.5997 Υ 41.5578 Χ Poor to Fair 7/20/2011 19,878 **Falmouth** Rt 28 15,100 Block, transverse, and longitudinal cracking E of Spring Bars Rd Site Code: 20844 -70.5997 Υ 41.5578 3 Fair to Good 6/6/2016 1,137 **Falmouth Barrows Rd** 1,000 N of Rt 28 Site Code: 7213 -70.5264 Υ 41.5852 4 Poor to Fair 6/9/2015 **Falmouth** 1,029 **Barrows Rd** 920 N of Rt 28 Site Code: 7213 -70.5264 41.5852 Poor 6/5/2013 1,057 **Falmouth Barrows Rd** 940 rutting, cracking, potholes N of Rt 28 Site Code: 7213 -70.5264 Υ 41.5852 Χ 3 6/27/2018 Fair to Good 5,922 **Falmouth** Brick Kiln Rd 5,300 minor weathering, some cracks W of Rt 28 Site Code: -70.6321 20171 41.5939 Χ Υ 6/9/2015 2 Good to Very Good 4,375 **Falmouth** Brick Kiln Rd 3,900 W of Rt 28 Site Code: 20171 Χ -70.6321 Υ 41.5939

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 6/14/2017 Good to Very Good Mashpee 1,726 **Ashers Pa** 1,500 weathered E of Meetinghouse Rd Site Code: 7221 Χ -70.4797 41.6288 3 Fair to Good 6/23/2014 Mashpee 1,683 **Ashers Pa** 1,500 E of Meetinghouse Rd Site Code: 7221 Χ -70.4797 Υ 41.6288 8/9/2011 2 Good to Very Good Mashpee 1,562 **Ashers Pa** 1,200 E of Meetinghouse Rd Site Code: 7221 -70.4797 Υ 41.6288 Χ 2 Good to Very Good 6/8/2016 1,084 Mashpee Ashers Pa (E) 960 N of Rt 28 Site Code: 20241 -70.4740 Υ 41.6284 Χ 3 7/7/2015 Fair to Good 4,973 Mashpee Cotuit Rd 3,800 N of Rt 130 Site Code: 20244 Χ -70.4661 Υ 41.6494 3 Fair to Good 6/19/2018 4,104 Mashpee Donna's Ln 3,700 Site Code: cracks W of Great Neck Road S 21434 -70.4869 Υ 41.6133 4 Poor to Fair 6/19/2018 17,938 Mashpee **Great Neck Rd North** 16,000 heavy weathering, rocks, big cracks. S of Rt 130 Site Code: 20243 -70.4813 41.6483 Χ 3 Fair to Good 7/7/2015 19,129 Mashpee **Great Neck Rd North** 14,500 S of Rt 130 Site Code: 20243 Χ -70.4813 41.6483 7/30/2018 Fair to Good 13,933 Mashpee **Great Neck Rd North** 10,600 General weathering, some filled in cracks N of Mashpee Rotary Site Code: 20252 -70.4878 41.6200 Χ 3 7/24/2012 Fair to Good 13,748 Mashpee **Great Neck Rd North** 10,400 weathering, rutting N of Mashpee Rotary Site Code: 20252 Χ -70.4878 41.6200

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 Fair to Good 8/18/2015 3,064 Mashpee Mashpee Neck Rd 2,300 S of Quinaquesset Av Site Code: 7222 41.6210 Χ -70.4689 1 New 7/24/2012 Mashpee 3,028 Mashpee Neck Rd 2,300 S of Quinaquesset Av Site Code: 7222 Χ -70.4689 Υ 41.6210 6/26/2012 1 New 2,869 Mashpee Mashpee Neck Rd 2,600 S of Quinaquesset Av Site Code: 7222 -70.4689 41.6210 Χ Υ 2 Good to Very Good 8/2/2016 Mashpee 1,072 Meetinghouse Rd 810 some cracking/ patching N of Rt 28 Site Code: 20250 Χ -70.4803 Υ 41.6242 3 Fair to Good 5/30/2012 1,041 Mashpee Meetinghouse Rd 960 Cracking, rutting and some repairs N of Rt 28 Site Code: 20250 Χ -70.4803 Υ 41.6242 3 Fair to Good 8/5/2014 2,613 Mashpee **Ninigret Ave** 2,000 N of Rt 151 Site Code: 20251 -70.5176 Υ 41.6164 6/8/2016 2 Good to Very Good 3,731 Mashpee Old Barn/Falm Rd 3,300 S of Rt 151 Site Code: 20254 -70.5092 41.6167 Χ 3 Fair to Good 5/30/2012 3,191 Mashpee Old Barn/Falm Rd 3,000 Cracking and patching S of Rt 151 Site Code: 20254 Χ -70.5092 41.6167 8/9/2011 Poor to Fair 3,849 Mashpee Old Barn/Falm Rd 2,900 pot holes, longitudinal cracking S of Rt 151 Site Code: 20254 41.6167 -70.5092 Χ 2 6/26/2012 Good to Very Good 7,532 Mashpee Old Barnstable Rd 6,700 N of Rt 151 Site Code: 20255 -70.5085 Χ 41.6178

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION TOWN** Begin Date: **AADT** 2 6/10/2015 Good to Very Good Yarmouth 7,529 **Buck Island Rd** 6,700 E of West Yarmouth Rd Site Code: 20357 -70.2270 Χ Υ 41.6647 2 Good to Very Good 7/23/2014 Yarmouth 8,649 **Buck Island Rd** 6,600 E of West Yarmouth Rd Site Code: 20357 Χ -70.2270 Υ 41.6647 1 New 8/14/2012 Yarmouth 8,528 **Buck Island Rd** 6,500 E of West Yarmouth Rd Site Code: 20357 -70.2270 41.6647 Χ Υ 2 Good to Very Good 7/11/2011 Yarmouth 8,153 **Buck Island Rd** 6,200 E of West Yarmouth Rd Site Code: 20357 -70.2270 Υ 41.6647 Χ 8/2/2017 3 Fair to Good 14,654 Yarmouth **Buck Island Rd** 11,100 weathering, rutting W of West Yarmouth Rd Site Code: 20358 -70.2319 Υ 41.6646 2 Good to Very Good 6/4/2013 11,556 Yarmouth **Buck Island Rd** 10,300 W of West Yarmouth Rd Site Code: 20358 -70.2319 Υ 41.6646 2 Good to Very Good 6/27/2016 Yarmouth 4,658 Camp St 4,100 N of Rt 28 Site Code: 20360 -70.2641 Χ 41.6587 8/14/2012 4,183 Good to Very Good Yarmouth Camp St 3,200 N of Rt 28 Site Code: 20360 -70.2641 41.6587 7/22/2014 Fair to Good 5,297 Yarmouth Camp St 4,000 N of Buck Island Rd Site Code: 21124 -70.2640 41.6653 Χ 7/23/2013 3 Fair to Good 5,187 Yarmouth Camp St 3,900 rutting N of Buck Island Rd Site Code: 21124 -70.2640 Χ 41.6653

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 6/17/2015 4 Poor to Fair 2,883 Harwich Depot Rd (E) 2,600 N of Rt 28 Site Code: 20474 -70.0392 Χ Υ 41.6806 3 Fair to Good 8/8/2011 Harwich 2,874 Depot Rd (E) 2,200 edge cracking, gouging, minor transverse, N of Rt 28 Site Code: longitudinal cracking. However, problems 20474 Χ -70.0392 Υ 41.6806 mostly in one 50-ft section 7/15/2014 3 Fair to Good Harwich 4,996 **Depot St** 3,800 N of Main St Site Code: 20767 -70.1208 Υ 41.6962 Χ 2 8/1/2018 Good to Very Good Harwich 7,569 **Great Western Rd** 5,800 Minor weathering, some uneven areas on E of Depot St Site Code: shoulders 20476 -70.1228 Υ 41.6907 Χ 2 6/17/2015 Good to Very Good 5,824 Harwich **Great Western Rd** 5,200 E of Depot St Site Code: 20476 Χ -70.1228 Υ 41.6907 4 Poor to Fair 6/13/2017 3,099 Harwich **Lower County Rd** 2,800 crackseal, rutting, weathered, longitudinal and W of Rt 28 Site Code: transverse cracks 20480 -70.0794 Υ 41.6676 Χ 3 Fair to Good 6/17/2015 Harwich 3,306 **Lower County Rd** 2,900 W of Rt 28 Site Code: 20480 -70.0794 41.6676 Χ Poor to Fair 8/1/2018 4,706 Harwich Oak St 3,600 Heavy weathering, widespread cracking N of Rt 39 Site Code: 20483 Χ -70.0716 41.6872 6/17/2015 3 Fair to Good 3,752 Harwich Oak St 3,300 N of Rt 39 Site Code: 20483 -70.0716 41.6872 Χ 2 8/8/2016 Good to Very Good 3,741 Harwich Pleasant Bay Rd 2,800 E of Rt 39 Site Code: 20489 -70.0096 Χ Υ 41.7211

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 Fair to Good 7/22/2015 3,282 Chatham Sam Ryder Rd 2,500 S of Middle Rd Site Code: 20792 -70.0064 41.6876 Χ Υ 3 Fair to Good 08/12/2014 Chatham 6,971 Shore Rd 5,300 Site Code: S of Barcliff Ave 21328 Υ Χ -69.9524 41.6887 8/8/2017 4 Poor to Fair Chatham 5,543 Shore Rd 4,200 weathered, rutting, crack seal, transverse N of Main St Site Code: cracks 20566 -69.9492 Υ 41.6771 Χ 3 Fair to Good 7/24/2013 Chatham 5,021 Shore Rd 3,800 crack sealing, minor rutting N of Main St Site Code: 20566 Χ -69.9492 Υ 41.6771 7/20/2015 4 Poor to Fair 3,778 Chatham Stage Harbor Rd 2,900 S of Rt 28 Site Code: 20570 Χ -69.9621 Υ 41.6817 3 Fair to Good 07/30/2014 3,909 Chatham Stage Harbor Rd 3,000 S of Rt 28 Site Code: 20570 -69.9621 Υ 41.6817 Χ 4 Poor to Fair 6/21/2017 Chatham 3,604 Stepping Stones Rd 3,200 Longitudinal and transverse cracks, E of Old Queen Anne Rd Site Code: weathering, rutted, road newly paved nearby 20571 -69.9739 41.6917 Χ 3 Fair to Good 07/30/2014 4,689 Chatham Stepping Stones Rd 3,600 E of Old Queen Anne Rd Site Code: 20571 Χ -69.9739 41.6917 6/21/2017 Poor to Fair 1,872 Chatham Stony Hill Rd 1,700 a lot of crackseal, weathering, rutting, E of Rt 28 Site Code: longitudinal and transverse cracks 20572 -69.9606 41.6974 Χ 3 08/12/2014 Fair to Good 2,164 Chatham Stony Hill Rd 1,600 Crack Seal / Pot Holes E of Rt 28 Site Code: 20572 Χ -69.9606 Υ 41.6974

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 Fair to Good 6/24/2015 2,026 **Orleans** Cove Rd 1,800 W of Rt 28 Site Code: 20604 41.7881 Χ -69.9888 Υ 4 Poor to Fair 6/23/2015 Orleans 467 Cross Rd 420 Site Code: E of Rt 28 21360 Χ -69.9954 Υ 41.7397 7/27/2016 2 Good to Very Good **Orleans** 13,636 **Eldredge Parkway** 10,400 E of Rt 6A Site Code: 20607 -69.9995 Υ 41.7800 Χ 4 Poor to Fair 7/9/2012 **Orleans** 12,741 **Eldredge Parkway** 9,700 Cracks and repairs E of Rt 6A Site Code: 20607 Χ -69.9995 Υ 41.7800 3 7/9/2018 Fair to Good 8,596 Orleans **Eldredge Parkway** 6,500 weathering, patched cracks E of Lots Hollow Rd Site Code: 20606 Χ -69.9982 Υ 41.7794 2 Good to Very Good 6/24/2015 8,490 **Orleans Eldredge Parkway** 7,600 E of Lots Hollow Rd Site Code: 20606 -69.9982 Υ 41.7794 Х 2 Good to Very Good 7/27/2016 **Orleans** 5,577 Lots Hollow Rd 4,200 S of Eldredge Parkway Site Code: 20609 -69.9991 41.7784 Poor to Fair Orleans 7/9/2012 5,315 Lots Hollow Rd 4,000 Weathering, Worn Paint, Patching S of Eldredge Parkway Site Code: 20609 Χ -69.9991 41.7784 7/26/2016 Good to Very Good 11,578 **Orleans** Main St 8,800 W of Rt 28 Site Code: 20611 -69.9878 41.7859 Χ 2 7/10/2012 Good to Very Good 10,741 **Orleans** Main St 8,200 W of Rt 28 Site Code: 20611 Χ -69.9878 Υ 41.7859

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Printed: 2/7/2019 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 8/7/2012 Poor to Fair Wellfleet 1,413 Lieutenant Island Rd 1,100 Severe wear, weathering and cracking W of Rt 6 Site Code: 20667 41.8999 Χ -69.9851 Υ 5 Poor 7/9/2018 Wellfleet 1,007 Long Pond Rd 770 Bad shoulder, cracks and uneven @ Rt 6 Overpass Site Code: 20668 Υ Χ -70.0225 41.9409 7/28/2015 3 Fair to Good Wellfleet 1,296 Long Pond Rd 980 @ Rt 6 Overpass Site Code: 20668 -70.0225 Υ 41.9409 Χ 3 Fair to Good 7/16/2012 Wellfleet 1,532 Long Pond Rd 1,200 Weathering E of Lawrence Rd Site Code: 21286 -70.0208 Υ 41.9417 Χ 2 7/8/2013 Good to Very Good 672 Wellfleet Long Pond Rd 510 W of Ocean View Dr Site Code: 21308 Χ -69.9897 Υ 41.9452 3 Fair to Good 7/9/2018 9,087 Wellfleet Main St 6,900 **WEATHERING** W of Rt 6 Site Code: 20670 -70.0231 Υ 41.9381 3 Fair to Good 7/19/2017 Wellfleet 9,956 Main St 7,600 crack seal. weathered, rutted W of Rt 6 Site Code: 20670 -70.0231 41.9381 Χ 7/18/2016 9,445 Good to Very Good Wellfleet Main St 7,200 W of Rt 6 Site Code: 20670 Χ -70.0231 41.9381 7/8/2013 Fair to Good 9,694 Wellfleet Main St 7,400 **Linear Cracking** W of Rt 6 Site Code: 20670 -70.0231 41.9381 Χ 2 6/19/2012 Good to Very Good 7,445 Wellfleet Main St 6,600 W of Rt 6 Site Code: 20670 -70.0231 Χ Υ 41.9381

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N of Bradford Rd

-70.1868

Χ

Υ

42.0532

Site Code: 20988

