

# Pavement Management 2016 Status Report

December 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.

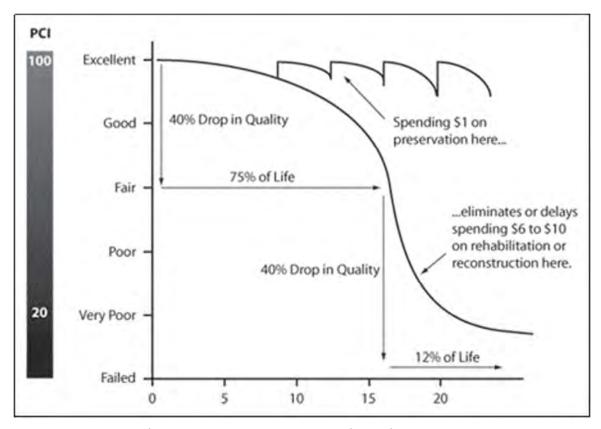
### 1.1 PAVEMENT MANAGEMENT SYSTEMS - BACKGROUND

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' 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 of 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 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 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 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 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 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 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	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
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#### 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.

<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 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:



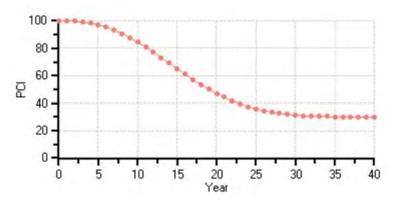


Figure 2 - Sample Deterioration Curve

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 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.

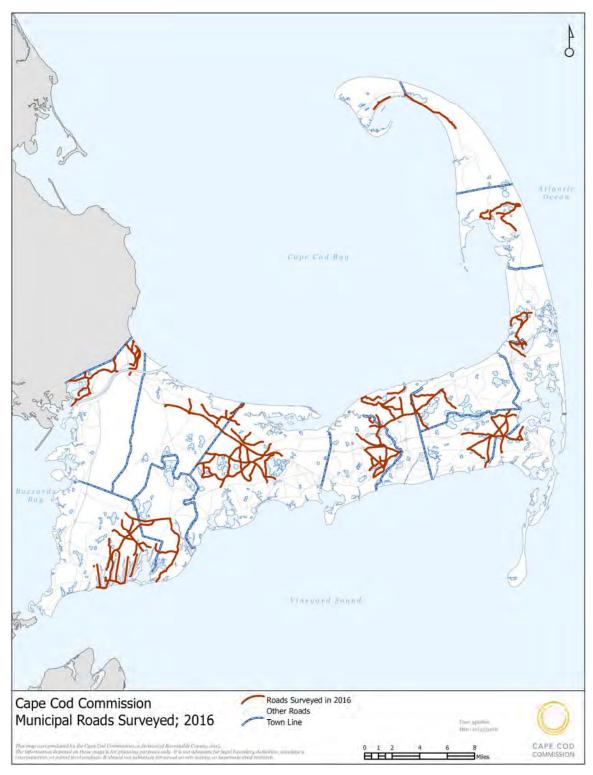
MassDOT evaluates roads under their own jurisdiction and a selection of municipally-owned roadways. The following table lists the corresponding rating from Excellent to Poor, based on a "PSI" (Pavement Serviceability Index) rating – roughly analogous to the "Pavement Condition Index" (PCI) commonly used.

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 through the use of GPS-capable tablet computers. The following figure shows the roadways that the CCC staff collected data on in 2016.





 ${\bf Figure~3~-~Municipal~Roads~Surveyed~in~2016}$ 



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

**Table 4 – 2011-2016 CCC Surveys of Pavement Condition - miles** 

Town	Very Good to Excellent	Good to Very Good	Fair to Good	Poor to Fair	Poor	Totals
Barnstable	14.9	42.8	42.5	10.0	1.3	111.5
Bourne	0.2	13.3	26.4	1.1	0.4	41.3
Brewster	4.4	7.8	11.6	1.5	1.1	26.5
Chatham	1.4	5.7	4.1	1.6	0.0	12.7
Dennis	5.8	18.5	20.4	0.6	0.0	45.3
Eastham	0.0	1.4	11.1	4.2	0.0	16.8
Falmouth	6.1	27.1	39.2	11.0	0.1	83.4
Harwich	1.8	18.4	22.9	0.0	0.0	43.1
Mashpee	0.0	5.9	18.2	5.5	0.0	29.5
Orleans	0.0	6.7	9.6	0.6	0.0	16.9
Provincetown	0.7	1.8	1.1	1.7	0.0	5.4
Sandwich	5.1	13.2	15.3	3.7	0.6	37.8
Truro	0.0	0.0	9.0	1.1	0.0	10.1
Wellfleet	0.0	9.2	8.0	0.5	0.0	17.6
Yarmouth	1.4	20.8	26.6	3.3	0.0	52.0
Totals	26.9	149.9	223.2	36.4	2.2	550.1

As shown in the table above, over 550 miles of survey data were collected throughout the 15 towns of Barnstable County from 2011-2016. The most common rating "Fair to Good" yielded over 223 miles. This is followed by almost 150 miles of "Good to Very Good", over 36 miles of "Poor to Fair," almost 27 miles for both "Very Good to Excellent" and slightly over two 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).



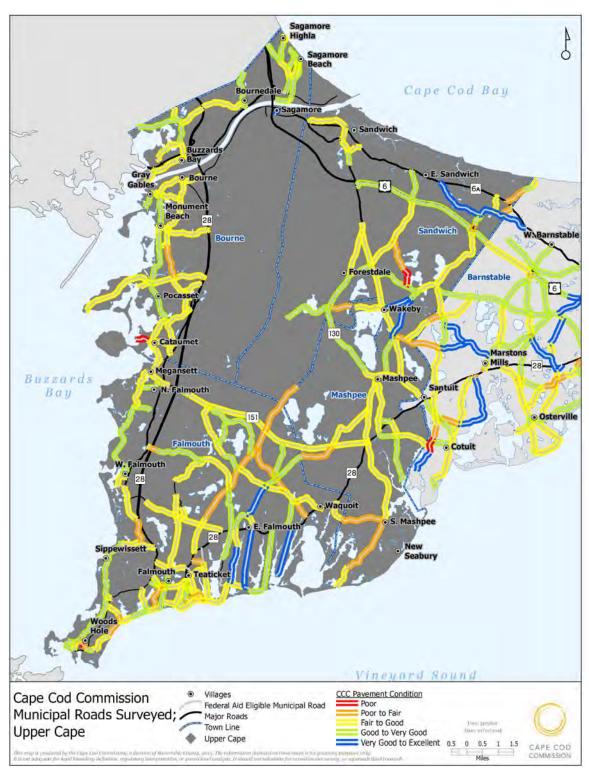


Figure 4 - 2011-2016 CCC Pavement Condition Surveys: Upper Cape



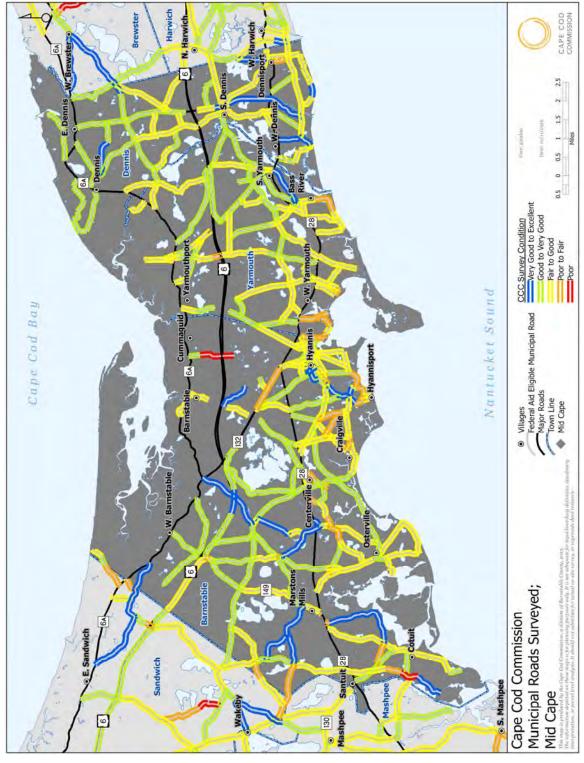


Figure 5 - 2011-2016 CCC Pavement Condition Surveys: Mid-Cape



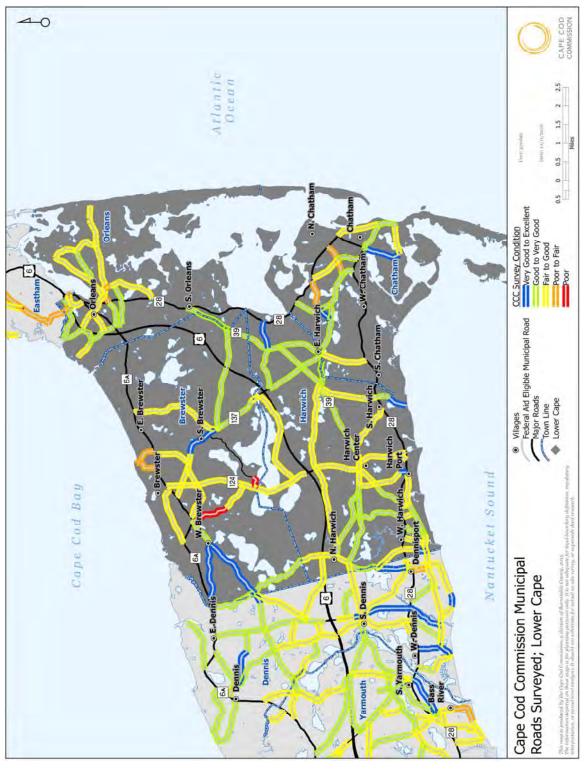
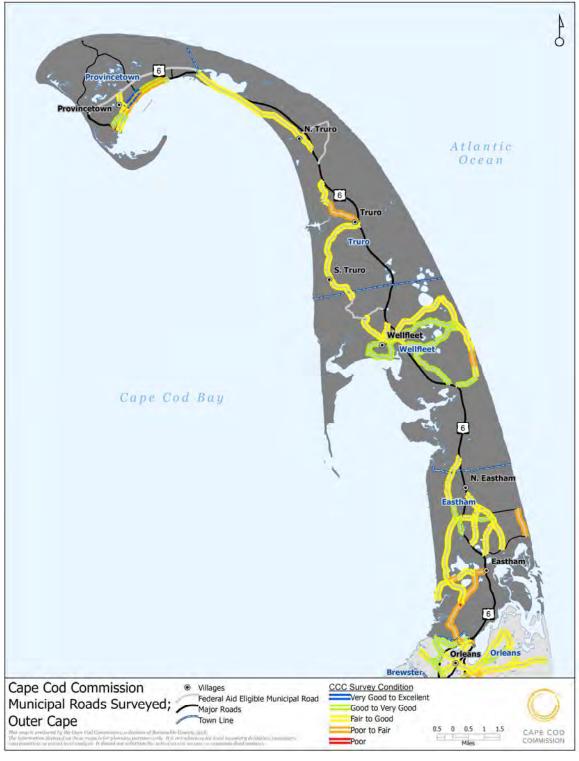


Figure 6 - 2011-2016 CCC Pavement Condition Surveys: Lower Cape





**Figure 7 - 2011-2016 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 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	78	7,698	2.69	2.61
Bourne	49	4,987	2.59	2.53
Brewster	20	4,503	2.85	3.22
Chatham	41	5,102	2.95	3.08
Dennis	49	6,025	2.51	2.60
Eastham	19	2,962	3.05	2.66
Falmouth	67	6,592	2.76	2.77
Harwich	39	6,673	2.56	2.46
Mashpee	35	7,260	2.74	2.83
Orleans	34	5,876	2.50	2.40
Provincetown	26	4,253	2.73	2.67
Sandwich	64	5,543	2.88	2.74
Truro	38	2,443	2.84	2.70
Wellfleet	28	2,936	2.75	2.74
Yarmouth	60	7,411	2.57	2.62



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).



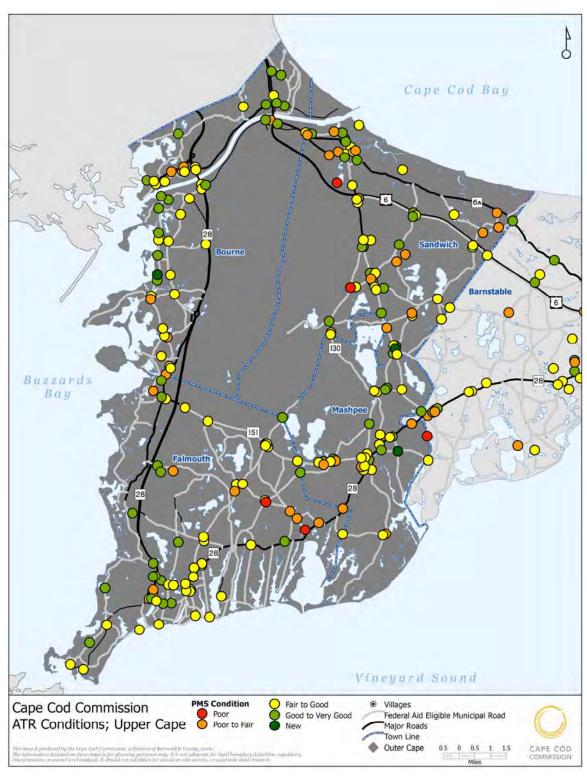


Figure 8 - 2011-2016 Pavement Conditions at ATR Locations: Upper Cape



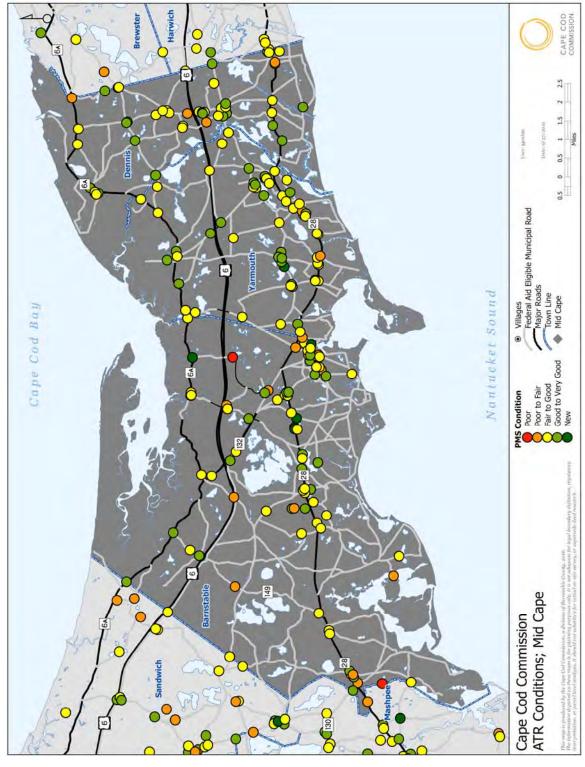


Figure 9 - 2011-2016 Pavement Conditions at ATR Locations: Mid-Cape



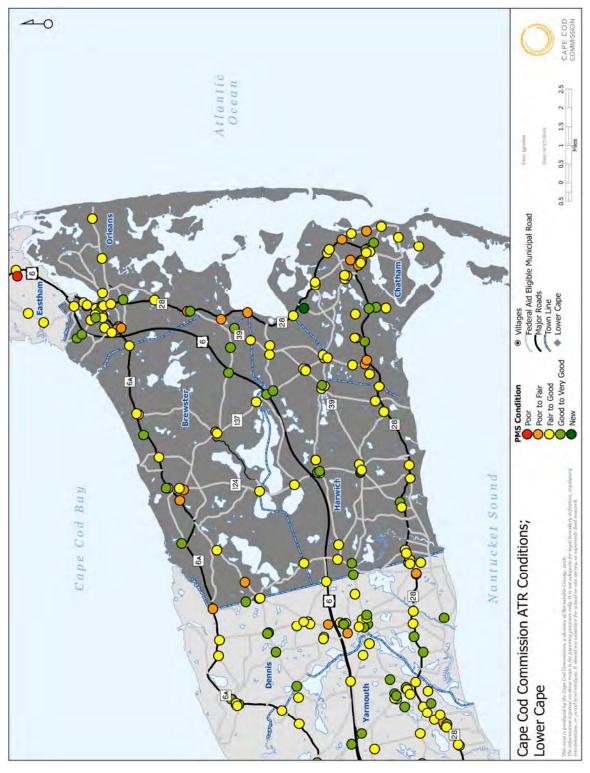


Figure 10 - 2011-2016 Pavement Conditions at ATR Locations: Lower Cape





Figure 11 - 2011-2016 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.



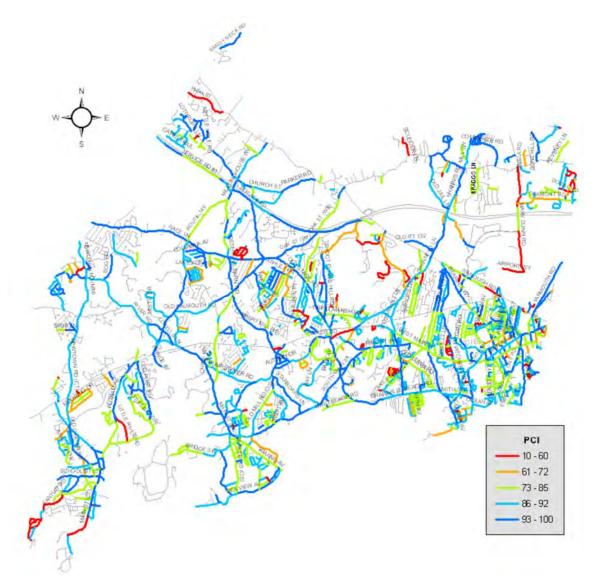
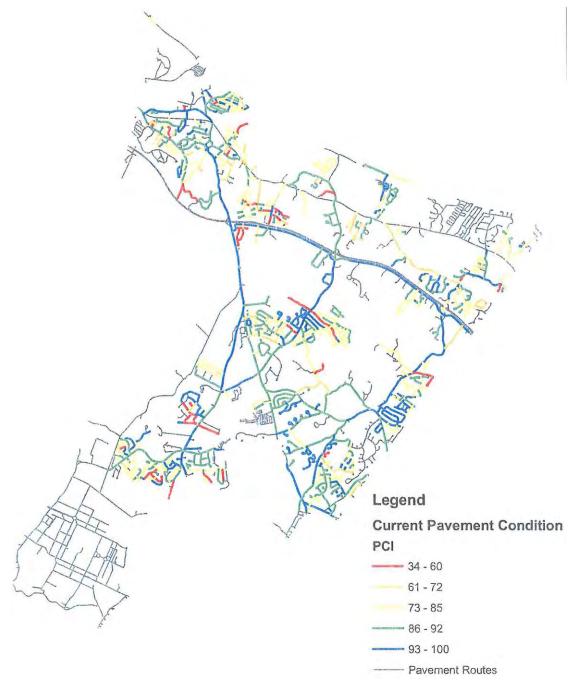


Figure 12 - Barnstable PCI Map

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** 

Town	Road Name	Pavement Condition Notes
BARNSTABLE	ASA MEIGS ROAD	No paint, major cracking, no patching
BARNSTABLE	CEDAR STREET WEST BARNSTABLE	Some areas with no paint, some longitudinal cracks, transverse cracking, weathering, rutting
BARNSTABLE	CHURCH STREET	Weathering and some rutting
BARNSTABLE	CROOKED CARTWAY	edge cracking, some utility patching
BARNSTABLE	GREAT MARSH ROAD	longitudinal cracks, patching
BARNSTABLE	HOWLAND ROAD	edge cracking, transverse cracking, patching, no paint
BARNSTABLE	MEETING HOUSE WAY	Weathering and some rutting
BARNSTABLE	NOTTINGHAM DRIVE	Cracks on edge cracking, no paint
BARNSTABLE	NYE ROAD	Cracks on edge cracking, no paint
BARNSTABLE	OAK STREET	Small amount of cracking, weathering
BARNSTABLE	OLD FALMOUTH ROAD	longitudinal cracks, weathering
BARNSTABLE	OLD STAGE ROAD	longitudinal cracks, patching, cracking, weathering
BARNSTABLE	OSTERVILLE WEST BARNSTABLE ROAD	edge cracking, Utility patching, transverse cracking, weathering
BARNSTABLE	PARKER ROAD	Weathering and some rutting
BARNSTABLE	PROSPECT STREET	edge cracking, Utility patching, transverse cracking, rutting, weathering
BARNSTABLE	RACE LANE	Weathering
BARNSTABLE	RIVER ROAD	patching, longitudinal cracks
BARNSTABLE	SANTUIT NEWTOWN ROAD	patching, longitudinal cracks, patching, edge cracking
BARNSTABLE	SCHOOL STREET	edge cracking, some utility patching
BARNSTABLE	SERVICE ROAD	edge cracking, patching, longitudinal cracks
BARNSTABLE	SHOOT FLYING HILL ROAD	longitudinal cracks, patching
BOURNE	BOURNEDALE ROAD	edge cracking, some other cracks, no paint

Town	Road Name	Pavement Condition Notes
BOURNE	CANAL STREET	No paint
BOURNE	CLARK ROAD	Very good
BOURNE	GIBBS ROAD	patching
BOURNE	HERRING POND ROAD	edge cracking, some other cracks, no paint
BOURNE	INDIAN TRAIL	Good. Some patching with and no paint
BOURNE	NORRIS ROAD	Very good with patching
BOURNE	OLD PLYMOUTH ROAD	Good. Patching, longitudinal cracks
BOURNE	PEAKED CLIFF ROAD	Very good with patching
BOURNE	PURITAN ROAD	patching, half new pavement
BOURNE	SAINT MARGARETS STREET	patching, half new pavement
BOURNE	STANDISH ROAD	Good with small amounts of cracking and patching
BOURNE	VICKERSON AVENUE	Good. Some patching with and no paint
BOURNE	WILLISTON ROAD	Like new, most of segment had no paint
BREWSTER	GREAT FIELDS ROAD	transverse cracking, edge cracking
BREWSTER	SLOUGH ROAD	patching, transverse cracking
СНАТНАМ	MEETING HOUSE ROAD	block cracking, patching, transverse cracking
СНАТНАМ	OLD COMERS ROAD	Weathering, and some faded paint
СНАТНАМ	OLD QUEEN ANNE ROAD	Weathering, and some faded paint
СНАТНАМ	TRAINING FIELD ROAD	Cracks, faded paint
DENNIS	EAST WEST DENNIS ROAD	Weathering
DENNIS	HOKUM ROCK ROAD	Weathering
DENNIS	SETUCKET ROAD	Mild weathering and faded paint

Town	Road Name	Pavement Condition Notes
DENNIS	SOUTH YARMOUTH ROAD	transverse cracking, patching
EASTHAM	BRIDGE ROAD	block cracking, transverse cracking, patching, longitudinal cracking, ravelling
EASTHAM	CANAL ROAD	Crack seal, transverse cracks
EASTHAM	HERRING BROOK ROAD	patching, transverse cracking
EASTHAM	SAMOSET ROAD	block cracking, longitudinal cracking, edge cracking, transverse cracking, patching
EASTHAM	SMITH LANE	Minor weathering
FALMOUTH	ACAPESKET ROAD	Crack seal, uneven pavement
FALMOUTH	BARROWS ROAD	Cracking, weathering
FALMOUTH	BARROWS ROAD	Utility cuts, weathering, spalling
FALMOUTH	CARRIAGE SHOP ROAD	patching, edge cracking, transverse cracking, crack seal
FALMOUTH	CENTRAL AVENUE	patching, edge cracking,
FALMOUTH	CROSS ROAD	Utility cuts, weathering, spalling
FALMOUTH	CURRIER ROAD	Potholes, rutting, weathering
FALMOUTH	EMERSON ROAD	Crack seal
FALMOUTH	FRESH POND ROAD	transverse cracking, patching
FALMOUTH	HAYWAY ROAD	Potholes, rutting, weathering, patching
FALMOUTH	JOHN PARKER ROAD	patching, block cracking
FALMOUTH	MARAVISTA AVENUE	patching, transverse cracking, weathering, uneven pavement
FALMOUTH	MEETING HOUSE ROAD	Cracking
FALMOUTH	MENAUHANT ROAD	Crack seal / patching, edge cracking / transverse cracking
FALMOUTH	NATHAN ELLIS HIGHWAY	Weathering
FALMOUTH	OLD BARNSTABLE ROAD	Minor weathering

Town	Road Name	Pavement Condition Notes
FALMOUTH	RED BROOK ROAD	Minor cracking, patching
FALMOUTH	SHOREWOOD DRIVE	transverse cracking
HARWICH	CHATHAM ROAD	block cracking, patching, edge cracking
HARWICH	CHURCH STREET	Some patching, north half of road has half new pavement, weathering
HARWICH	DEPOT ROAD	patching, block cracking,
HARWICH	DEPOT STREET	patching, transverse cracking
HARWICH	ORLEANS ROAD	rutting / Some patching, north half of road has half new pavement / Weathering, and some faded paint
HARWICH	PLEASANT BAY ROAD	Some patching, north half of road has half new pavement
HARWICH	QUEEN ANNE ROAD	longitudinal cracks, utility patching / Weathering, and some faded paint
HARWICH	ROUTE 137	Weathering
HARWICH	UNCLE VENIES ROAD	Good, but utility work on all of road
MASHPEE	GREAT NECK ROAD SOUTH	Crack seal, rutting, transverse cracks
MASHPEE	GREAT OAK ROAD	Cracks, weathering, crack seal
MASHPEE	NATHAN ELLIS HIGHWAY	Crack seal
MASHPEE	OLD BARNSTABLE ROAD	Crack seal, rutting, edge cracking raveling, weathering
MASHPEE	RED BROOK ROAD	Crack seal, rutting, weathering
ORLEANS	BRIDGE ROAD	block cracking, transverse cracking, patching, longitudinal cracking, ravelling
ORLEANS	CANAL ROAD	Crack seal, transverse cracks
ORLEANS	MAIN STREET	transverse cracking, block cracking, edge cracking, patching
ORLEANS	ROCK HARBOR ROAD	transverse cracking, block cracking, edge cracking, patching, weathering
PROVINCETOWN	BRADFORD STREET	patching
PROVINCETOWN	CONWELL STREET	patching

Town	Road Name	Pavement Condition Notes
SANDWICH	CHASE ROAD	longitudinal cracks
SANDWICH	HOWLAND LANE	edge cracking, transverse cracking, patching, no paint
SANDWICH	MEIGGS BACKUS ROAD	No paint, major cracking, no patching
SANDWICH	OLD COUNTY ROAD	longitudinal cracks
SANDWICH	QUAKER MEETING HOUSE ROAD	longitudinal cracks
SANDWICH	SANDY NECK ROAD	patching, block cracking, edge cracking, transverse cracking
SANDWICH	SERVICE ROAD	edge cracking, longitudinal cracks, patching
TRURO	SHORE ROAD	transverse cracking, block cracking, patching
WELLFLEET	CAHOONS HOLLOW ROAD	transverse cracking
WELLFLEET	CHEQUESSETT NECK ROAD	Faded paint
WELLFLEET	COMMERCIAL STREET	transverse cracking
WELLFLEET	EAST COMMERCIAL STREET	transverse cracking
WELLFLEET	KENDRICK AVENUE	transverse cracking
WELLFLEET	LONG POND ROAD	patching
WELLFLEET	OLD COUNTY ROAD SOUTH	patching, transverse cracking
YARMOUTH	BRAY FARM ROAD NORTH	grade depressions
YARMOUTH	CAPTAIN SMALL ROAD	No paint, transverse cracking
YARMOUTH	GREAT WESTERN ROAD	Weathering, some patching
YARMOUTH	HIGHBANK ROAD	Weathering, some patching
YARMOUTH	NORTH DENNIS ROAD	grade depressions
YARMOUTH	NORTH MAIN STREET	patching, utility work on edge cracking
YARMOUTH	RAYMOND AVENUE	No paint

Town	Road Name	Pavement Condition Notes
YARMOUTH	SETUCKET ROAD	grade depressions / Mild weathering and faded paint
YARMOUTH	SHERIDAN ROAD	Weathering, some patching
YARMOUTH	STATION AVENUE	patching
YARMOUTH	WEIR ROAD	Occasional rutting
YARMOUTH	WEST GREAT WESTERN ROAD	grade depressions, rutting
YARMOUTH	WITCHWOOD ROAD	No paint, transverse cracking
YARMOUTH	WOOD ROAD	patching, utility work on edge cracking

## APPENDIX -

Cape Cod Commission ATR Location Data

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 Good to Very Good 7/12/2016 **Bourne** 11,325 **Rt 28A Falmouth** 8,600 Rutting @ Bour/Falm TL Site Code: 20123 Χ -70.6107 Υ 41.6577 4 Poor to Fair 6/9/2014 **Bourne** 8,879 **Rt 28A Falmouth** 7,900 @ Bour/Falm TL Site Code: 20123 Υ 41.6577 Χ -70.6107 3 Fair to Good 6/24/2013 **Bourne** 9,743 **Rt 28A Falmouth** 8,700 crack sealing, rutting @ Bour/Falm TL Site Code: 20123 -70.6107 Υ 41.6577 Χ 3 Fair to Good 7/17/2012 **Bourne** 10,396 **Rt 28A Falmouth** 7,900 Weathering, Cracks and Repairs @ Bour/Falm TL Site Code: 20123 -70.6107 Υ 41.6577 Χ Fair to Good 7/18/2011 3 10,368 Bourne **Rt 28A Falmouth** 7,900 Repairs are ok, some longitudinal cracking, @ Bour/Falm TL Site Code: and rutting 20123 Χ -70.6107 Υ 41.6577 3 Fair to Good 6/28/2016 6,177 **Bourne Rt 28A** 5,500 Some rutting & cracking N of County Rd Site Code: 20124 -70.6077 Υ 41.6605 Χ 3 Fair to Good 7/17/2012 5,757 **Bourne Rt 28A** 4,400 cracks and repairs N of County Rd Site Code: 20124 -70.6077 41.6605 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 Υ 41.7966 Χ 7/17/2012 Good to Very Good 7,748 **Bourne** Rt 3A **Plymouth** 5,900 S of Bour/Plym TL Site Code: 20125 -70.5439 41.7966 Χ Υ Poor to Fair 7/18/2011 8,098 **Bourne** Rt 3A **Plymouth** 6,200 Longitudinal, transverse, edge, and alligator S of Bour/Plym TL Site Code: cracking 20125 -70.5439 Χ Υ 41.7966

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 7/12/2011 4 Poor to Fair **Bourne** 7,846 Rt 3A **Plymouth** 6,000 transverse, longitudinal, edge, and alligator S of Bour/Plym TL Site Code: cracking 20125 -70.5439 41.7966 Χ Υ 3 Fair to Good 7/29/2013 **Bourne** 10,046 Rt 3A 7,600 weathering, cracks N of Meetinghouse Rd Site Code: 20126 Χ -70.5428 Υ 41.7856 2 Good to Very Good 8/18/2015 **Bourne** 20,320 Rt 6 Wareham 15,400 @ Bour/Ware TL Site Code: 20817 -70.6212 Υ 41.7470 Χ 4 Poor to Fair 08/26/2014 **Bourne** 8,371 Rt 6 Bypass 6,400 Cracking W of Belmont Circle Site Code: 20127 -70.6060 Υ 41.7509 Χ 7/31/2013 4 Poor to Fair 8,043 Bourne Rt 6 Bypass 6,100 major cracking W of Belmont Circle Site Code: 20127 Χ -70.6060 Υ 41.7509 4 Poor to Fair 7/17/2012 9,342 **Bourne** Rt 6 Bypass 7,100 Linear and transverse cracking W of Belmont Circle Site Code: 20127 -70.6060 Υ 41.7509 3 Fair to Good 08/26/2014 6,934 **Bourne** Rt 6 Bypass 5,300 **E of Memorial Circle** Site Code: 21263 -70.6168 Χ 41.7466 7/12/2016 14,693 New **Bourne** Rt 6A Sandwich 11,200 @ Bour/Sand TL Site Code: 20133 Χ -70.5233 Υ 41.7682 5/27/2014 3 Fair to Good 12,814 **Bourne** Rt 6A Sandwich 12,300 @ Bour/Sand TL Site Code: 20133 -70.5233 41.7682 Χ Υ 3 Fair to Good 7/17/2012 13,600 **Bourne** Rt 6A Sandwich 10,300 Rutting @ Bour/Sand TL Site Code: 20133 Χ -70.5233 Υ 41.7682

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 7/18/2011 4 Poor to Fair **Bourne** 13,607 Rt 6A Sandwich 10,300 Transverse cracking, rutting, and crumbling at @ Bour/Sand TL Site Code: edges 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 5/16/2012 2 Good to Very Good **Bourne** 4,306 **Adams St** 4,100 S of Sandwich Rd Site Code: 20815 -70.5405 Υ 41.7725 Χ 3 Fair to Good 6/27/2012 **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 7/11/2016 Good to Very Good 76 **Bourne Back River Rd** Site Code: 60 S of Shore Rd 21392 Χ -70.6080 Υ 41.7379 2 Good to Very Good 7/11/2016 1,064 **Bourne** Bell Rd 810 Site Code: W of Old Monument Neck Rd 21394 -70.6125 Υ 41.7397 2 Good to Very Good 08/26/2014 6,223 **Bourne** Canal Rd 4,700 S of Scenic Hwy Site Code: 20189 -70.5408 41.7819 5/27/2014 2,059 Good to Very Good **Bourne** Church Ln 2,000 N of Rt 6 Scenic Site Code: 20814 -70.5475 41.7813 7/12/2011 Fair to Good 2,072 **Bourne** Church Ln 1,600 slight cracking, good N of Rt 6 Scenic Site Code: 20814 -70.5475 41.7813 Χ 3 6/12/2012 Fair to Good 4,748 **Bourne Clay Pond Rd** 4,200 Linear Cracks and Repairs W of Rt 28 Site Code: 20108 -70.5854 Χ Υ 41.7174

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 Fair to Good 8/21/2012 4,756 **Bourne County Rd** 3,600 Rutting N of Rt 28A Site Code: 20111 -70.6084 41.6614 Χ Υ 3 Fair to Good 6/12/2012 **Bourne** 3,633 **County Rd** 3,200 Cracking S of Barlows Landing Rd Site Code: 20109 -70.6050 Χ Υ 41.6945 3 7/18/2011 Fair to Good 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 Υ 41.7189 Χ 3 Fair to Good 6/12/2012 **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 3,663 Bourne County Rd 2,800 Linear Cracks and Patching S of Valley Bars Rd Site Code: 20112 Χ -70.6073 Υ 41.7033 2 Good to Very Good 7/11/2016 1,088 **Bourne Emmons Rd** 830 Site Code: W of Shore Rd 21389 41.7123 Χ -70.6151 Υ 7/11/2016 2 Good to Very Good **Bourne** 165 Evergreen Hill Rd 130 Site Code: W of Elizabeth Av 21391 -70.6144 41.7227 Χ 3 Fair to Good 7/12/2016 4,804 **Bourne** Head of the Bay Rd 3,700 Rutting N of Belmont Circle Site Code: 20114 -70.5986 41.7530 6/27/2012 Poor to Fair 5,302 **Bourne** Head of the Bay Rd 4,700 cracking N of Belmont Circle Site Code: 20114 -70.5986 41.7530 Χ 2 7/12/2011 Good to Very Good 4,682 **Bourne** Head of the Bay Rd 3,600 E of Plymouth Ln Site Code: 20113 Χ -70.6016 41.7684

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions** TOWN **ROUTE & LOCATION** Begin Date: **AADT** 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 41.7804 Χ Υ 3 Fair to Good 7/31/2013 **Bourne** 13,881 Main St 10,500 minor rutting E of Academy Dr Site Code: 20131 Χ -70.6156 Υ 41.7452 8/2/2016 2 Good to Very Good **Bourne** 16,029 Main St 12,200 weathering/ faded paint W of Belmont Circle Site Code: 7175 -70.5993 Υ 41.7510 Χ 4 Poor to Fair 7/6/2011 **Bourne** 20,016 Main St 15,200 Transverse, longitudinal, and edge cracking W of Belmont Circle Site Code: 7175 -70.5993 Υ 41.7510 Χ 3 Fair to Good 7/31/2013 13,958 Bourne Main St 10,600 Cracking W of St. Margaret Site Code: 20132 Χ -70.6103 Υ 41.7463 2 Good to Very Good 7/17/2012 7,545 **Bourne** Meetinghouse Ln 5,700 W of Old Plymouth Rd Site Code: 20115 -70.5360 Υ 41.7806 7/12/2011 3 Fair to Good 7,602 **Bourne** Meetinghouse Ln 5,800 some longitudinal cracking, but cracks are all W of Old Plymouth Rd Site Code: covered; one patch but in good condition 20115 -70.5360 Χ 41.7806 Good to Very Good 7/11/2016 2,820 **Bourne** Monument Neck Rd Site Code: 2,100 E of Presidents Rd 21393 -70.6142 41.7340 6/27/2012 3 Fair to Good 1,818 **Bourne** Nightingale Pond Rd 1,600 weathering, linear cracking N of Scenic Hwy Site Code: 20135 -70.5913 41.7528 Χ 3 6/27/2012 Fair to Good 789 **Bourne** Old Bridge Rd 700 Linear Cracking and Patching **S of Belmont Circle** Site Code: 21276 -70.5980 Χ 41.7509

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 Good to Very Good 7/12/2016 3,833 **Bourne Old Plymouth Rd** 2,900 S of Norris Rd Site Code: 7121 -70.5380 41.7948 Χ Υ 2 Good to Very Good 7/29/2013 **Bourne** 3,898 **Old Plymouth Rd** 3,000 S of Norris Rd Site Code: 7121 -70.5380 Χ Υ 41.7948 3 7/6/2011 Fair to Good **Bourne** 4,006 **Old Plymouth Rd** 3,000 Edge cracking S of Norris Rd Site Code: 7121 -70.5380 Υ 41.7948 Х 3 Fair to Good 7/11/2016 **Bourne** 990 Red Brook Harbor Rd Site Code: 750 W of Shore Rd 21384 -70.6113 Υ 41.6755 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 Υ 41.7743 Fair to Good 3 7/31/2013 5,134 **Bourne** Sandwich Rd 3,900 rutting under Bourne Bridge Site Code: 20136 41.7449 Χ -70.5877 Υ 7/8/2015 4 Poor to Fair 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: 20850 -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: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions 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

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 6/10/2015 4 Poor to Fair 1,228 Sandwich **Artisan Way** 1,100 Site Code: E of Rt 130 21356 -70.5090 41.6763 Χ Υ 2 Good to Very Good 6/1/2016 Sandwich 1,668 **Boardley Rd** 1,500 W of Harlow Rd Site Code: 7223 Χ -70.4594 Υ 41.6846 6/18/2013 4 Poor to Fair Sandwich 1,537 **Boardley Rd** 1,400 Rutted, Sealed Cracks W of Harlow Rd Site Code: 7223 -70.4594 Υ 41.6846 Χ 3 Fair to Good 6/14/2016 Sandwich 5,416 Chase Rd Site Code: 4,800 Cracking just south of tubes S of Rt 6 EB Ramps 21403 -70.4213 Υ 41.7153 6/14/2016 3 Fair to Good 4,264 Sandwich 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 3,785 Sandwich Chase Rd 3,400 S of Service Rd Site Code: 20143 -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 41.7152 Fair to Good 6/2/2014 14,880 Sandwich Cotuit Rd Site Code: 13,200 Trans cracking N of Farmersville Rd 21335 -70.4819 41.6968 8/6/2014 Fair to Good 9,702 Sandwich Cotuit Rd 7,400 Site Code: crack seal S of Farmersville Rd 21336 -70.4810 41.6956 3 9/2/2015 Fair to Good 14,311 Sandwich Cotuit Rd 13,200 N of Quaker Meetinghouse Rd Site Code: 20144 41.7032 Χ -70.4846

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 7/6/2011 Good to Very Good Sandwich 18,172 Cotuit Rd 13,800 N of Quaker Meetinghouse Rd Site Code: 20144 Χ -70.4846 Υ 41.7032 3 Fair to Good 9/2/2015 Sandwich 15,463 Cotuit Rd 14,200 S of Quaker Meetinghouse Rd Site Code: 20145 Χ -70.4833 Υ 41.6994 2 Good to Very Good 6/6/2012 Sandwich 14,775 Cotuit Rd 13,100 S of Quaker Meetinghouse Rd Site Code: 20145 -70.4833 Υ 41.6994 Χ 3 Fair to Good 08/06/2014 Sandwich 7,504 Cotuit Rd 5,700 Crack Seal / Rutting N of S Sandwich Rd Site Code: 21088 -70.4708 Υ 41.6699 Χ 08/06/2014 1 New 6,302 Sandwich Cotuit Rd 4,800 S of S Sandwich Rd Site Code: 21089 Χ -70.4698 Υ 41.6683 4 Poor to Fair 6/2/2014 7,091 Sandwich Cotuit Rd **Mashpee** 6,300 @ Sand/Mash TL (Middle) Site Code: 20147 -70.4749 Υ 41.6780 Χ 3 Fair to Good 6/26/2013 Sandwich 7,289 Mashpee Cotuit Rd 6,500 sealed cracks @ Sand/Mash TL (Middle) Site Code: 20147 -70.4749 41.6780 3 Fair to Good 6/18/2012 6,932 Sandwich Cotuit Rd Mashpee 6,200 Weathering and Patching @ Sand/Mash TL (Middle) Site Code: 20147 -70.4749 41.6780 Χ 6/1/2016 Good to Very Good 8,221 Sandwich Cotuit Rd **Mashpee** 7,300 @ Sand/Mash TL (N end) Site Code: 21284 -70.4782 Χ 41.6848 2 6/2/2014 Good to Very Good 7,586 Sandwich Mashpee Cotuit Rd 6,800 Trans cracking @ Sand/Mash TL (N end) Site Code: 21284 Χ -70.4782 41.6848

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 6/26/2013 Good to Very Good Sandwich 7,577 Cotuit Rd **Mashpee** 6,700 @ 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 Χ -70.4687 Υ 41.6656 4 Poor to Fair 7/25/2011 Sandwich 4,279 Cotuit Rd **Mashpee** 3,300 longitudinal & edge cracking; raveling @ Sand/Mash TL (S end) Site Code: 21283 -70.4687 Υ 41.6656 Χ 3 Fair to Good Sandwich 6/10/2015 1,254 **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 3 Fair to Good 6/14/2016 943 Sandwich Freeman Av 840 Site Code: Cracking E of Knott Av 21397 -70.4905 Υ 41.7714 Χ 3 Fair to Good 6/28/2016 Sandwich 3,717 Freezer Rd 3,300 N of Tupper Rd Site Code: 20785 -70.5058 41.7685 7/29/2013 Poor to Fair Sandwich 3,844 Freezer Rd 2,900 cracking, weathering N of Tupper Rd Site Code: 20785 Χ -70.5058 Υ 41.7685 6/18/2013 3 Fair to Good 3,997 Sandwich **Great Hill Rd** 3,600 Sealed Cracks, Weathering N of Farmersville Rd Site Code: 20723 -70.4434 41.6910 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: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 6/10/2015 Fair to Good Sandwich 2,058 **Newtown Rd Barnstable** 1,800 @ Sand/Barn TL Site Code: 20938 Χ -70.4412 Υ 41.6817 4 Poor to Fair 06/08/2015 Sandwich 616 **Old County Ln** 550 E of Jones Ln Site Code: 7117 Χ -70.4053 Υ 41.7234 6/2/2014 4 Poor to Fair 606 Sandwich **Old County Ln** 540 Edge cracking E of Jones Ln Site Code: 7117 -70.4053 Υ 41.7234 Χ 4 Poor to Fair 7/25/2011 Sandwich 643 **Old County Ln** 490 Transverse and edge cracking E of Jones Ln Site Code: 7117 -70.4053 Υ 41.7234 Χ 8/14/2013 3 Fair to Good 1,591 Sandwich **Old County Rd** 1,200 sealed cracks, wear E of Old Mill Rd Site Code: 21313 Χ -70.4327 Υ 41.7295 4 Poor to Fair 6/8/2015 442 Sandwich Pinkham Rd 390 Site Code: S of Turtle Cove Rd 21354 -70.4684 Υ 41.7082 Χ 2 Good to Very Good 8/10/2016 Sandwich 10,306 **Quaker Meetinghouse Rd** 7,800 S of Rt 6 EB Ramps Site Code: 20152 -70.4578 41.7295 Χ 8/18/2015 9,863 Good to Very Good Sandwich **Quaker Meetinghouse Rd** 7,500 S of Rt 6 EB Ramps Site Code: 20152 Χ -70.4578 41.7295 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 6/6/2012 Fair to Good 9,965 Sandwich **Quaker Meetinghouse Rd** 8,900 Minor potholes and weathering E of Cotuit Rd Site Code: 20148 Χ -70.4813 41.7032

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 7/25/2011 Poor to Fair Sandwich 6,777 Race Ln **Barnstable** 5,200 Transverse and edge cracking, deep rutting @ Sand/Barn TL Site Code: 20155 Χ -70.4360 Υ 41.6868 2 Good to Very Good 6/2/2014 Sandwich 1,948 Service Rd 1,700 E of Rt 130 Site Code: 20937 Χ -70.4911 Υ 41.7377 3 Fair to Good 7/23/2012 Sandwich 2,080 Service Rd 1,600 cracks with repairs E of Quaker Meetinghouse Rd Site Code: 20165 Υ 41.7294 Χ -70.4563 3 Fair to Good 6/18/2012 Sandwich 735 Service Rd **Barnstable** 650 cracking on edges, patching @ Sand/Barn TL Site Code: 20167 -70.4126 Υ 41.7105 Χ 7/7/2015 5 Poor 231 Sandwich Shawme Rd Site Code: 180 W of Shaker House Rd 21369 Χ -70.5043 Υ 41.7449 2 Good to Very Good 8/5/2013 5,821 Sandwich **Snake Pond Rd** 4,400 W of Rt 130 Site Code: 20773 -70.5101 Υ 41.6813 Χ 2 Good to Very Good 8/6/2014 Sandwich 5,112 South Sandwich Rd 3,900 @ Sand/Mash TL Site Code: 20999 -70.4711 41.6659 3 Fair to Good 6/14/2016 466 Sandwich Spring Hill Rd Site Code: 410 Cracking W of Juniper Hill Rd 21398 -70.4640 41.7505 7/29/2013 Good to Very Good 5,646 Sandwich **Town Neck Rd** 4,300 N of Tupper Rd Site Code: 20784 -70.5007 41.7680 Χ 2 7/29/2013 Good to Very Good 8,617 Sandwich Tupper Rd (E end) 6,500 N of Rt 6A Site Code: 20168 Χ -70.4991 Υ 41.7651

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 7/20/2011 4 Poor to Fair **Falmouth** 18,104 Rt 28 13,800 Longitudinal and block cracking N of Lakeview Av Site Code: 20217 41.5585 Χ -70.6198 Υ 2 Good to Very Good 08/26/2014 **Falmouth** 5,280 Rt 28 4,000 E of Locust St Site Code: 20845 Χ -70.6211 Υ 41.5545 3 8/4/2014 Fair to Good **Falmouth** 18,415 Rt 28 14,000 **E** of Maravista Ext Site Code: 20218 -70.5899 Υ 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 Υ 41.5533 2 8/7/2013 Good to Very Good 16,848 **Falmouth** Rt 28 12,800 E of Sandwich Rd Site Code: 20220 -70.5946 Υ 41.5683 Χ 2 Good to Very Good 6/17/2014 11,365 **Falmouth** Rt 28 10,100 W of Shore Rd Site Code: 20824 -70.6140 Υ 41.5521 Χ 3 Fair to Good 8/1/2016 **Falmouth** 17,147 Rt 28 13,000 Cracking on shoulder E of Spring Bars Rd Site Code: 20844 -70.5997 Χ 41.5578 3 6/17/2014 17,361 Fair to Good **Falmouth** Rt 28 15,500 E of Spring Bars Rd Site Code: 20844 Χ -70.5997 41.5578 8/7/2013 Fair to Good 18,655 **Falmouth** Rt 28 14,200 weathering wear E of Spring Bars Rd Site Code: 20844 -70.5997 41.5578 Χ 7/24/2012 3 Fair to Good 18,810 **Falmouth** Rt 28 14,300 Linear Cracking E of Spring Bars Rd Site Code: 20844 Χ -70.5997 41.5578

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions TOWN **ROUTE & LOCATION** Begin Date: **AADT** 2 8/1/2016 Good to Very Good **Falmouth** 10,356 Woods Hole Rd 7,900 Faded paint and some rutting S of Oyster Pond Site Code: 20237 Χ -70.6486 Υ 41.5426 3 Fair to Good 6/17/2014 **Falmouth** 9,009 Woods Hole Rd 8,000 S of Oyster Pond Site Code: 20237 Χ -70.6486 Υ 41.5426 3 Fair to Good 8/14/2013 **Falmouth** 10,165 Woods Hole Rd 7,700 rutting S of Oyster Pond Site Code: 20237 -70.6486 Υ 41.5426 Χ 3 Fair to Good 7/31/2012 **Falmouth** 10,262 **Woods Hole Rd** 7,800 Rutting S of Oyster Pond Site Code: 20237 -70.6486 Υ 41.5426 7/20/2011 3 Fair to Good 10,587 **Falmouth** Woods Hole Rd 8,000 rutting, one small pothole S of Oyster Pond Site Code: 20237 -70.6486 Υ 41.5426 2 Good to Very Good 8/10/2016 4,057 **Falmouth Worcester Av** 3,100 N of Grand Av (Beach Side) Site Code: 7217 Υ -70.5943 41.5464 3 Fair to Good 8/10/2016 **Falmouth Worcester Av** N of Grand Av (Beach Side) Site Code: 7217 -70.5943 41.5464 3 Fair to Good 8/1/2016 **Falmouth Worcester Av** Cracks and no paint N of Grand Av ( Beach Side ) Site Code: 7217 Χ -70.5943 41.5464 8/14/2013 Fair to Good 3,081 **Falmouth Worcester Av** 2,300 cracks, wear N of Grand Av (Beach Side) Site Code: 7217 -70.5943 41.5464 Χ 3 8/7/2013 Fair to Good **Falmouth Worcester Av** weathering N of Grand Av ( Beach Side ) Site Code: 7217 Χ -70.5943 41.5464

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION TOWN** Begin Date: **AADT** 3 5/30/2012 Fair to Good 843 **Barnstable Fuller Rd** 780 Weathering, rutting and old repairs E of Wedgewood Dr Site Code: 7196 Χ -70.3566 Υ 41.6536 2 Good to Very Good 8/2/2016 **Barnstable** 3,599 **High School Rd** 2,700 weathering N of South St Site Code: 7191 Χ -70.2867 Υ 41.6505 6/17/2013 3 Fair to Good **Barnstable** 3,413 **High School Rd** 3,000 cracking, rutting N of South St Site Code: 7191 -70.2867 Υ 41.6505 Χ 2 Good to Very Good 5/31/2016 **Barnstable** 898 **Huckins Neck Rd** 830 W of Rt 132 Site Code: 20287 -70.3298 Υ 41.6832 Χ 3 7/23/2012 Fair to Good 1,485 **Barnstable Huckins Neck Rd** 1,100 W of Rt 132 Site Code: 20287 -70.3298 Υ 41.6832 2 Good to Very Good 5/31/2016 5,894 **Barnstable** Hyannis Rd 5,500 S of Rt 6A Site Code: 20288 -70.3002 41.7003 Υ 3 Fair to Good 5/21/2012 **Barnstable** 5,235 Hyannis Rd 5,000 Small cracks, rutting S of Rt 6A Site Code: 20288 -70.3002 41.7003 7/23/2012 13,871 Good to Very Good **Barnstable** Independence Park Dr 10,500 N of Rt 132 Site Code: 20289 Χ -70.2997 41.6718 Υ 5/21/2012 Poor to Fair 1,634 **Barnstable** Kidds Hill Rd 1,600 Severe Cracking, rutting, transverse cracking E of Phinneys Ln Site Code: 20290 -70.3058 41.6867 Χ 6/20/2016 2 Good to Very Good 6,194 **Barnstable** Lewis Bay Rd 5,500 N of South St Site Code: 20291 -70.2749 Χ Υ 41.6535

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 1 7/25/2012 New **Barnstable** 7,561 Lewis Bay Rd 5,700 N of South St Site Code: 20291 -70.2749 41.6535 Χ Υ 1 New 8/13/2013 **Barnstable** 3,146 Lincoln Rd 2,400 S of Rt 28 Site Code: 20292 Χ -70.3128 Υ 41.6597 3 Fair to Good 5/23/2012 **Barnstable** 1,203 **Lumbert Mill Rd** 1,200 S of Westminster Rd Site Code: 7199 -70.3702 Υ 41.6508 Χ 4 Poor to Fair 7/13/2015 **Barnstable** 2,325 Main St (Cotuit) 1,800 S of Rt 28 Site Code: 20294 Χ -70.4504 Υ 41.6373 6/20/2016 3 Fair to Good 14,241 **Barnstable** Main St (Hyannis) Yarmouth 12,700 Some cracking @ Barn/Yarm TL Site Code: 20295 Χ -70.2712 Υ 41.6570 4 Poor to Fair 5/28/2013 12,819 **Barnstable** Main St (Hyannis) **Yarmouth** 12,300 minor rutting, cracking, weathering @ Barn/Yarm TL Site Code: 20295 -70.2712 Υ 41.6570 Χ 3 Fair to Good 7/25/2012 **Barnstable** 11,545 Main St (Hyannis) 8,800 Cracking W of Cedar St Site Code: 7190 -70.2742 41.6561 Χ 4 Poor to Fair 6/20/2016 10,670 **Barnstable** Main St (Hyannis) 9,500 Deep rutting, some cracking W of Center St Site Code: 20296 -70.2812 41.6540 7/25/2012 3 Fair to Good 7,258 **Barnstable** Main St (Hyannis) 5,500 Rutting W of Winter St Site Code: 21280 -70.2865 41.6516 Χ 3 6/20/2016 Fair to Good 18,920 **Barnstable** Main St (Hyannis) 16,800 W of Yarmouth Rd Site Code: 20297 -70.2780 Χ Υ 41.6550

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 3 Fair to Good 5/23/2012 1,085 **Barnstable** Parker Rd 1,000 some cracking S of 3rd Av Site Code: 7200 -70.3850 41.6207 Χ Υ 2 Good to Very Good 5/28/2013 7,706 **Barnstable** Phinneys Ln 7,400 N of Rt 28 Site Code: 20311 Χ -70.3392 Υ 41.6579 2 Good to Very Good 5/31/2016 **Barnstable** 7,766 Phinneys Ln 7,200 S of Kidds Hill Rd Site Code: 20837 -70.3075 Υ 41.6863 Χ 3 Fair to Good 7/15/2015 **Barnstable** 8,569 Phinneys Ln 6,500 S of Kidds Hill Rd Site Code: 20837 -70.3075 Υ 41.6863 3 Fair to Good 5/21/2013 7,578 **Barnstable** Phinneys Ln 7,300 minor rutting, weathering, minor cracking S of Kidds Hill Rd Site Code: 20837 Χ -70.3075 Υ 41.6863 3 Fair to Good 5/21/2012 6,940 **Barnstable** Phinneys Ln 6,700 S of Kidds Hill Rd Site Code: 20837 -70.3075 Υ 41.6863 7/11/2011 4 Poor to Fair **Barnstable** 8,436 Phinneys Ln 6,400 Fair, cracking around drainpipe/manhole, S of Kidds Hill Rd Site Code: longitudinal cracking 20837 -70.3075 41.6863 Χ 4 7/15/2015 479 Poor to Fair **Barnstable** Pine Av (Hyannis) 360 Btwn Main St and South St Site Code: 7166 -70.2881 41.6498 7/22/2014 Poor to Fair 469 **Barnstable** Pine Av (Hyannis) 360 Cracks, Rutting Btwn Main St and South St Site Code: 7166 -70.2881 41.6498 Χ 2 7/15/2015 Good to Very Good 6,547 **Barnstable** Pine St (Centerville) 5,000 E of South Main St Site Code: 7137 -70.3361 Χ Υ 41.6516

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions TOWN ROUTE & LOCATION** Begin Date: **AADT** 2 7/23/2013 Good to Very Good Yarmouth 6,418 **Old Main St** 4,900 W of Horse Way Site Code: 21134 Χ -70.1958 Υ 41.6609 3 Fair to Good 7/23/2013 Yarmouth 1,123 **Pleasant St** 850 weathering, cracks W of Crosby St Site Code: 21320 41.6620 Χ -70.1895 Υ 8/6/2013 2 Good to Very Good Yarmouth 7,078 Regional Av 5,400 E of Station Av Site Code: 20388 -70.1906 Υ 41.6749 Χ 3 Fair to Good 7/16/2013 Yarmouth 5,085 Seaview Av 3,900 Weathering Rutting S of Rt 28 Site Code: 21047 -70.2179 Υ 41.6502 Χ 7/23/2013 3 Fair to Good 4,680 Yarmouth Setucket Rd 3,600 weathering W of North Dennis Rd Site Code: 20745 -70.1918 Υ 41.7122 Χ 2 Good to Very Good 6/27/2016 6,050 Yarmouth Setucket Rd **Dennis** 5,400 @ Yarm/Denn TL Site Code: 20838 -70.1859 Υ 41.7128 Χ 2 Good to Very Good 7/16/2013 Yarmouth 6,085 Setucket Rd **Dennis** 4,600 @ Yarm/Denn TL Site Code: 20838 -70.1859 41.7128 8/13/2012 Good to Very Good Yarmouth 5,521 Setucket Rd **Dennis** 4,200 @ Yarm/Denn TL Site Code: 20838 Χ -70.1859 41.7128 Υ 7/13/2011 Good to Very Good 6,352 Yarmouth Setucket Rd **Dennis** 4,800 @ Yarm/Denn TL Site Code: 20838 -70.1859 41.7128 Χ 7/23/2013 3 Fair to Good 5,542 Yarmouth South St 4,200 weathering, rutting S of Old Main St Site Code: 20407 -70.2019 Χ Υ 41.6574

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 3 7/16/2013 Fair to Good Yarmouth 7,668 **Union St** 5,800 Rutting, Weathering S of Rt 6A Site Code: 20418 -70.2282 41.7050 Χ Υ 3 Fair to Good 7/16/2013 Yarmouth 2,850 West Yarmouth Rd 2,200 Shoving N of Rt 28 Site Code: 20423 Χ -70.2329 Υ 41.6506 7/22/2014 2 Good to Very Good Yarmouth 8,535 West Yarmouth Rd 6,500 N of Buck Island Rd Site Code: 20419 -70.2294 Υ 41.6657 Χ 2 Good to Very Good 7/22/2014 Yarmouth 3,856 West Yarmouth Rd 2,900 S of Buck Island Rd Site Code: 20420 -70.2301 Υ 41.6644 Χ 2 6/16/2014 Good to Very Good 9,598 Yarmouth **Whites Path** 8,500 E of Station Av Site Code: 20424 Χ -70.2110 Υ 41.6879 3 Fair to Good 7/8/2014 5,436 Yarmouth Willow St 4,100 S of Rt 6A Site Code: 20804 -70.2562 Υ 41.7021 7/8/2014 3 Fair to Good Yarmouth 8,697 Willow St 6,600 Rutting S of R.R. tracks Site Code: 20426 -70.2574 41.6983 Χ 7/16/2013 1,636 Good to Very Good Yarmouth Willow St (S Yar) 1,200 Btwn Locust St & Run Pond Rd Site Code: 21234 Χ -70.2069 41.6549 7/22/2014 Fair to Good 3,008 Yarmouth Winslow Gray Rd 2,300 N of Rt 28 Site Code: 20431 -70.2299 41.6507 Χ 3 Fair to Good 7/23/2013 2,314 Yarmouth Wood Rd 1,800 crack sealing W of Geneva Rd Site Code: 21317 Χ -70.1910 41.6689

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 7/9/2013 4 Poor to Fair 7,608 **Dennis** Rt 6A **Brewster** 5,800 major rutting, cracking @ Denn/Brew TL Site Code: 20460 41.7448 Χ -70.1452 Υ 3 Fair to Good 8/6/2012 **Dennis** 8,358 Rt 6A **Brewster** 6,400 Linear Cracking and wear @ Denn/Brew TL Site Code: 20460 Χ -70.1452 Υ 41.7448 7/13/2011 4 Poor to Fair **Dennis** 8,525 Rt 6A **Brewster** 6,500 longitudinal, transverse, block, and alligator @ Denn/Brew TL Site Code: cracking; deep rutting in the Brewster section 20460 -70.1452 Υ 41.7448 Χ 2 Good to Very Good 07/29/2014 **Dennis** 14,676 Rt 6A Site Code: 11,200 W of New Boston Rd 21332 -70.1947 Υ 41.7351 2 5/29/2012 Good to Very Good 6,729 Dennis Rt 6A 6,500 E of Old Bass River Rd Site Code: 20461 -70.1919 Υ 41.7383 Χ 3 Fair to Good 8/27/2014 12,634 **Dennis** Rt 6A 9,600 Site Code: E of Old Post Rd 21333 -70.1941 Υ 41.7364 2 Good to Very Good 6/24/2015 6,453 Dennis Airline Rd 5,700 E of Rt 134 Site Code: 20434 -70.1525 41.7081 Fair to Good 8/6/2012 6,717 **Dennis** Airline Rd 5,100 Cracking with patching and edge cracks E of Rt 134 Site Code: 20434 -70.1525 41.7081 Χ Υ 6/7/2016 3 Fair to Good 1,987 **Dennis** Airline Rd **Brewster** 1,800 @ Denn/Brew TL (N end) Site Code: 20880 -70.1418 Χ Υ 41.7320 2 7/21/2015 Good to Very Good 2,575 **Dennis Brewster** Airline Rd 2,000 @ Denn/Brew TL (N end) Site Code: 20880 -70.1418 Υ 41.7320 Χ

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions TOWN ROUTE & LOCATION** Begin Date: **AADT** 3 6/25/2013 Fair to Good Harwich 9,630 Rt 137 **Brewster** 8,600 Sealed Cracks, Weathering @ Harw/Brew TL Site Code: 20500 Χ -70.0387 Υ 41.7267 3 Fair to Good 6/12/2013 Harwich 8,480 Rt 137 **Brewster** 7,500 Cracking @ Harw/Brew TL Site Code: 20500 Χ -70.0387 Υ 41.7267 5 Poor 8/20/2012 Harwich 10,095 Rt 137 **Brewster** 7,700 Cracking and pot holes on sides @ Harw/Brew TL Site Code: 20500 -70.0387 Υ 41.7267 Χ Poor to Fair 8/8/2011 4 Harwich 10,931 **Brewster** Rt 137 8,300 longitudinal cracking, potholes @ Harw/Brew TL Site Code: 20500 -70.0387 Υ 41.7267 Χ 2 6/3/2014 Good to Very Good 13,290 Harwich Rt 137 11,800 S of Pleasant Bay Rd Site Code: 21164 -70.0332 Υ 41.7201 Χ 3 Fair to Good 6/10/2013 9,979 Harwich Rt 28 8,900 Cracking, Rutting W of Bank St Site Code: 20504 -70.0725 Υ 41.6679 Χ 3 Fair to Good 6/10/2013 Harwich 10,103 Rt 28 9,000 Weathering, Linear Cracking E of Belmont Rd Site Code: 20505 Χ -70.1164 41.6700 3 8/19/2013 11,856 Fair to Good Harwich Rt 28 9,000 cracks, wear W of Belmont Rd Site Code: 20506 -70.1182 Υ 41.6696 Χ 8/8/2016 3 Fair to Good 11,282 **Harwich** Rt 28 Chatham 8,600 Rutting @ Harw/Chat TL (N end) Site Code: 20508 -69.9943 Χ Υ 41.7118 8/20/2012 3 Fair to Good 10,133 Harwich Rt 28 Chatham 7,700 Cracking and rutting @ Harw/Chat TL (N end) Site Code: 20508 Χ -69.9943 Υ 41.7118

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions TOWN ROUTE & LOCATION** Begin Date: **AADT** 7/19/2011 Poor to Fair Harwich 10,792 Rt 28 Chatham 8,200 Deep rutting, long., transverse, and edge @ Harw/Chat TL (N end) Site Code: cracking 20508 Χ -69.9943 Υ 41.7118 1 New 8/8/2016 Harwich 11,269 Rt 28 Chatham 8,600 @ Harw/Chat TL (W end) Site Code: 20509 Χ -70.0317 Υ 41.6790 3 Fair to Good 07/28/2014 Harwich 10,392 Rt 28 Chatham 7,900 @ Harw/Chat TL (W end) Site Code: 20509 -70.0317 Υ 41.6790 Χ Poor to Fair 4 Harwich 8/19/2013 9,939 Chatham Rt 28 7,600 cracks, potholes @ Harw/Chat TL (W end) Site Code: 20509 -70.0317 Υ Χ 41.6790 6/25/2012 4 Poor to Fair 8,782 Harwich Rt 28 Chatham 7,800 Cracking and Rutting @ Harw/Chat TL (W end) Site Code: 20509 -70.0317 Υ 41.6790 Χ 3 Fair to Good 7/19/2011 10,217 Harwich Rt 28 Chatham 7,800 transverse cracking, slight longitudinal @ Harw/Chat TL (W end) Site Code: cracking 20509 -70.0317 Υ 41.6790 Χ 2 Good to Very Good 8/8/2016 Harwich 10,904 Rt 28 8,300 E of Sisson Rd (Rt 39) Site Code: 20511 -70.0916 Χ 41.6716 7/14/2014 10,718 Good to Very Good Harwich Rt 28 8,100 E of Sisson Rd (Rt 39) Site Code: 20511 -70.0916 41.6716 Χ 6/5/2012 Good to Very Good 7,471 Harwich Rt 28 6,600 E of Sisson Rd (Rt 39) Site Code: 20511 41.6716 -70.0916 Χ 8/1/2011 Poor to Fair 12,097 Harwich Rt 28 9,200 Transverse, longitudinal, alligator, and block E of Sisson Rd (Rt 39) Site Code: cracking 20511 Χ -70.0916 41.6716

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT** Pavement Conditions **ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 6/10/2013 Fair to Good Harwich 11,145 Rt 28 9,900 Weathering, Minor Rutting W of Sisson Rd (Rt 39) Site Code: 20512 Χ -70.0943 41.6710 3 Fair to Good 7/14/2014 Harwich 11,967 Rt 39 9,100 E of Rt 124 (Pleasant Lake Av) Site Code: 21091 41.6863 Χ -70.0746 Υ 3 Fair to Good 6/3/2014 Harwich 7,147 Rt 39 6,400 Seals on cracks E of Rt 137 Site Code: 20522 -70.0219 Υ 41.7082 Χ 2 Good to Very Good 8/8/2016 **Harwich** 11,056 Rt 39 8,400 W of Rt 137 Site Code: 20523 -70.0228 Υ 41.7074 Х 6/3/2014 3 Fair to Good 8,475 Harwich Rt 39 7,500 W of Rt 137 Site Code: 20523 -70.0228 Υ 41.7074 Χ 3 Fair to Good 6/25/2012 9,825 Harwich Rt 39 8,700 Rutting W of Rt 137 Site Code: 20523 -70.0228 41.7074 Υ Χ 3 Fair to Good 8/19/2013 Harwich 6,248 **Brewster** Rt 39 4,700 cracks, wear @ Harw/Brew TL Site Code: 20515 -70.0065 41.7284 Χ 7/5/2016 8,373 Fair to Good Harwich Rt 39 6,400 uneven w/cracks N of Pleasant Bay Rd Site Code: 20518 Χ -70.0125 41.7215 6/29/2016 Fair to Good 8,008 Harwich Rt 39 6,600 Uneven w/Cracks N of Pleasant Bay Rd Site Code: 20518 -70.0125 41.7215 Χ 6/29/2016 2 Good to Very Good 7,674 Harwich Rt 39 6,300 S of Pleasant Bay Rd Site Code: 20519 Χ -70.0127 41.7188

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 2 07/28/2014 Good to Very Good 11,084 Harwich Rt 39 8,400 N of Queen Anne Rd Site Code: 20520 41.7011 Χ -70.0306 Υ 3 Fair to Good 6/17/2015 Harwich 2,547 Chatham Rd 2,300 N of Rt 28 Site Code: 20472 Χ -70.0448 Υ 41.6773 6/17/2015 4 Poor to Fair Harwich 2,883 Depot Rd (E) 2,600 N of Rt 28 Site Code: 20474 -70.0392 Υ 41.6806 Χ 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 -70.0392 Υ 41.6806 mostly in one 50-ft section Χ 7/15/2014 3 Fair to Good 4,996 Harwich **Depot St** 3,800 N of Main St Site Code: 20767 Χ -70.1208 Υ 41.6962 2 Good to Very Good 6/17/2015 5,824 Harwich **Great Western Rd** 5,200 E of Depot St Site Code: 20476 -70.1228 Υ 41.6907 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 3 Fair to Good 6/17/2015 3,752 Harwich Oak St 3,300 N of Rt 39 Site Code: 20483 Χ -70.0716 41.6872 8/8/2016 Good to Very Good 3,741 Harwich Pleasant Bay Rd 2,800 E of Rt 39 Site Code: 20489 -70.0096 41.7211 Χ 3 6/17/2015 Fair to Good 3,036 Harwich Pleasant Bay Rd 2,700 E of Rt 39 Site Code: 20489 -70.0096 Χ Υ 41.7211

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions TOWN ROUTE & LOCATION** Begin Date: **AADT** 3 Fair to Good 6/17/2015 4,624 Harwich Pleasant Bay Rd 4,100 W of Rt 39 Site Code: 20490 -70.0142 41.7212 Χ Υ 2 Good to Very Good 8/9/2016 Harwich 7,401 Queen Anne Rd 5,600 W of Rt 124 Site Code: 20494 Χ -70.0758 Υ 41.7025 6/5/2012 3 Fair to Good Harwich 5,916 Queen Anne Rd 5,300 minor rutting W of Rt 124 Site Code: 20494 -70.0758 Υ 41.7025 Χ 2 8/8/2016 Good to Very Good Harwich 6,380 Queen Anne Rd Chatham 4,800 W of Rt 137 Site Code: 20495 -70.0164 Υ 41.7001 Χ 7/30/2012 3 Fair to Good 4,581 Harwich Queen Anne Rd Chatham 3,500 Weathering and Rutting W of Rt 137 Site Code: 20495 -70.0164 Υ 41.7001 Χ 3 Fair to Good 8/20/2012 4,456 Harwich Queen Anne Rd 3,400 Rutting and Weathering E of Rt 39 Site Code: 20496 41.7001 -70.0310 Υ Χ 3 Fair to Good 8/1/2012 Harwich 5,721 Queen Anne Rd 4,300 Some Wear and Rutting W of Rt 39 Site Code: 20491 -70.0325 41.7013 Χ 3 Fair to Good 6/5/2012 4,839 Harwich Queen Anne Rd 4,300 Some Cracking and weathering E of Main St (Old Chatham Rd) Site Code: 20493 -70.1133 41.6958 6/5/2012 Fair to Good 5,773 Harwich Queen Anne Rd 5,100 Linear cracking, rutting E of Oak St Site Code: 20492 -70.0690 41.7040 Χ Υ 3 7/15/2014 Fair to Good 1,693 Harwich **Brewster** Slough Rd 1,300 @ Harw/Brew TL Site Code: 20898 Χ -70.1223 Υ 41.7093

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION** TOWN Begin Date: **AADT** 6/25/2013 4 Poor to Fair Chatham 6,679 Rt 137 5,900 cracking N of Rt 28 Site Code: 20556 Χ -70.0200 Υ 41.6843 3 Fair to Good 6/15/2016 Chatham 6,691 Rt 137 6,000 S of Middle Rd Site Code: 20554 Χ -70.0204 Υ 41.6891 8/20/2012 3 Fair to Good Chatham 7,398 Rt 137 5,600 Transverse Cracking S of Middle Rd Site Code: 20554 -70.0204 Υ 41.6891 Χ 3 Fair to Good 7/25/2016 Chatham 9,909 Rt 137 7,500 Some rutting, cracking S of Queen Anne Rd Site Code: 20555 -70.0165 Υ 41.6988 Χ 3 07/28/2014 Fair to Good 9,826 Chatham Rt 137 7,500 Crack Seal S of Queen Anne Rd Site Code: 20555 -70.0165 Υ 41.6988 Χ 3 Fair to Good 6/25/2013 8,811 Chatham Rt 137 7,800 **Rutting Weathering** S of Queen Anne Rd Site Code: 20555 -70.0165 Υ 41.6988 Χ 3 Fair to Good 7/30/2012 Chatham 9,593 Rt 137 7,300 Cracks and repairs S of Queen Anne Rd Site Code: 20555 -70.0165 41.6988 Poor to Fair 7/19/2011 10,076 Chatham Rt 137 7,700 Block, edge, transverse, & longitudinal S of Queen Anne Rd Site Code: cracking; mild rutting 20555 Χ -70.0165 41.6988 7/24/2013 Poor to Fair 15,021 Chatham Rt 28 11,400 rutting, patches E of Rt 137 Site Code: 20563 -70.0179 41.6836 Χ 2 7/25/2016 Good to Very Good 16,974 Chatham Rt 28 12,900 E of Barn Hill Rd Site Code: 20557 Χ -69.9913 Υ 41.6825

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 08/12/2014 Good to Very Good Chatham 16,260 Rt 28 12,400 E of Barn Hill Rd Site Code: 20557 Χ -69.9913 Υ 41.6825 2 Good to Very Good 6/25/2013 Chatham 13,717 Rt 28 12,200 E of Barn Hill Rd Site Code: 20557 Χ -69.9913 Υ 41.6825 1 New 7/30/2012 Chatham 15,741 Rt 28 12,000 E of Barn Hill Rd Site Code: 20557 -69.9913 Υ 41.6825 Χ 4 Poor to Fair 7/19/2011 Chatham 15,589 Rt 28 11,800 Severe transverse cracking, pothole, major E of Barn Hill Rd Site Code: patching (in good condition), deep rutting 20557 -69.9913 Υ 41.6825 Χ 08/12/2014 3 Fair to Good 11,959 Chatham Rt 28 9,100 N of Crowell Rd (N end) Site Code: 20559 Χ -69.9772 Υ 41.7031 3 Fair to Good 6/25/2013 10,902 Chatham Rt 28 9,700 weathering, major rutting N of Crowell Rd (N end) Site Code: 20559 -69.9772 Υ 41.7031 Χ 4 Poor to Fair 7/20/2015 Chatham 13,539 Rt 28 10,300 E of Crowell Rd (S end) Site Code: 21189 Χ -69.9666 41.6849 3 7/22/2015 18,512 Fair to Good Chatham Rt 28 14,100 W of Crowell Rd (S end) Site Code: 20755 Χ -69.9677 41.6853 07/30/2014 Fair to Good 19,093 Chatham Rt 28 14,500 Rutting / Cracking W of Crowell Rd (S end) Site Code: 20755 Χ -69.9677 41.6853 6/25/2013 4 Poor to Fair 15,072 Chatham Rt 28 13,400 rutting, cracking E of Heritage Ln Site Code: 20560 Χ -69.9691 Υ 41.6862

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 7/22/2015 Good to Very Good 5,796 Chatham Rt 28 4,400 N of Main St Site Code: 21035 Χ -69.9611 Υ 41.6833 4 Poor to Fair 7/24/2013 Chatham 4,723 Rt 28 3,600 cracks, potholes, rutting S of Old Harbor Rd Site Code: 20562 Υ Χ -69.9554 41.6924 07/30/2014 3 Fair to Good Chatham 13,052 Rt 28 9,900 W of Stage Harbor Rd Site Code: 20829 -69.9626 41.6831 Χ Υ 4 Poor to Fair Chatham 6/15/2016 8,199 Rt 28 7,300 Cracking & deep rutting N of Stoney Hill Rd Site Code: 20564 -69.9623 Υ 41.6982 Χ 08/12/2014 3 Fair to Good 7,502 Chatham Rt 28 5,700 Heavy Rutting N of Stoney Hill Rd Site Code: 20564 -69.9623 Υ 41.6982 Χ 3 Fair to Good 7/24/2013 10,520 Chatham Rt 28 8,000 rutting weathering N of Stoney Hill Rd Site Code: 20564 -69.9623 Υ 41.6982 Χ 3 Fair to Good 8/20/2012 Chatham 9,570 Rt 28 7,300 Cracking and rutting N of Stoney Hill Rd Site Code: 20564 -69.9623 41.6982 Χ Poor to Fair 8/8/2011 10,642 Chatham Rt 28 8,100 edge, longitudinal cracking; severe rutting N of Stoney Hill Rd Site Code: 20564 Χ -69.9623 41.6982 7/19/2011 Fair to Good 10,375 Chatham Rt 28 7,900 mild longitudinal, transverse, edge cracking, N of Stoney Hill Rd Site Code: deep rutting 20564 -69.9623 41.6982 Χ 2 6/15/2016 Good to Very Good 2,916 Chatham Barn Hill Rd 2,600 Cracking on painted divider N of Hardings Beach Rd Site Code: 20530 Χ -69.9901 41.6781

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION TOWN** Begin Date: **AADT** 2 7/22/2015 Good to Very Good 4,692 Chatham Barn Hill Rd 3,600 Site Code: N of Meadow View Rd 21342 Χ -69.9908 Υ 41.6797 3 Fair to Good 6/22/2015 400 Chatham **Bridge St** 360 E of Gammys Ln Site Code: 20531 Χ -69.9549 Υ 41.6705 6/22/2015 4 Poor to Fair 888 Chatham **Chatham Bars Ave** Site Code: 790 W of Shore Rd 21367 -69.9514 Υ 41.6829 Χ 4 Poor to Fair 6/22/2015 Chatham 5,181 **Crowell Rd** 4,600 S of Barcliff Av Site Code: 20535 -69.9661 Υ 41.6892 Χ 7/20/2015 4 Poor to Fair 6,044 Chatham Crowell Rd (S) 4,600 N of Rt 28 Site Code: 21186 Χ -69.9671 Υ 41.6854 3 Fair to Good 7/20/2015 1,155 Chatham Depot Rd 880 N of Rt 28 Site Code: 21187 -69.9665 Υ 41.6853 6/22/2015 3 Fair to Good Chatham 2,239 George Ryder Rd 2,000 N of Katie Ford Dr Site Code: 20538 -69.9940 Χ 41.6877 3 Fair to Good 6/22/2015 2,003 Chatham **Hardings Beach Rd** 1,800 W of Barn Hill Rd Site Code: 20540 Χ -69.9913 41.6758 7/20/2015 Poor to Fair 11,442 Chatham Main St 8,700 E of Rt 28 Site Code: 21034 -69.9604 41.6824 Χ 3 Fair to Good 7/30/2012 7,097 Chatham Main St 5,400 Rutting W of Chatham Bars Av Site Code: 21281 Χ -69.9575 41.6802

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 2 7/9/2012 Good to Very Good Chatham 7,325 Main St 5,600 W of Chatham Bars Av Site Code: 21281 Χ -69.9575 41.6802 2 Good to Very Good 6/15/2016 Chatham 4,013 Main St 3,600 W of Shore Rd Site Code: 20543 Χ -69.9500 Υ 41.6772 08/12/2014 3 Fair to Good Chatham 1,162 Morris Island Rd 880 N of Stage Island Rd Site Code: 20544 Υ 41.6627 Χ -69.9597 3 Fair to Good 6/25/2012 Chatham 1,189 Morton Rd 1,100 Cracks and patching N of Charles St Site Code: 20545 -70.0251 Υ 41.6826 Χ 7/25/2016 1 New 3,999 Chatham **Old Comers Rd** 3,000 W of Rt 28 Site Code: 20546 -69.9787 Υ 41.7030 Χ 3 Fair to Good 8/20/2012 3,268 Chatham **Old Comers Rd** 2,500 Cracking W of Rt 28 Site Code: 20546 -69.9787 Υ 41.7030 Χ 3 Fair to Good 6/15/2016 Chatham 6,482 Old Queen Anne Rd 5,800 Ruttin & fading painted lines N of Stepping Stones /Earles/Wilford Site Code: 20550 -69.9757 Χ 41.6916 6/22/2015 6,088 Good to Very Good Chatham Old Queen Anne Rd 5,400 N of Stepping Stones /Earles/Wilford Site Code: 20550 Χ 41.6916 07/30/2014 Fair to Good 7,837 Chatham Old Queen Anne Rd 6,000 N of Stepping Stones /Earles/Wilford Site Code: 20550 -69.9757 41.6916 Χ 3 7/30/2012 Fair to Good 7,010 Chatham Old Queen Anne Rd 5,300 rutting and weathering N of Stepping Stones /Earles/Wilford Site Code: 20550 Χ -69.9757 41.6916

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION TOWN** Begin Date: **AADT** 3 7/19/2011 Fair to Good Chatham 7,558 Old Queen Anne Rd 5,700 patching, slight cracking N of Stepping Stones /Earles/Wilford Site Code: 20550 Χ -69.9757 Υ 41.6916 2 Good to Very Good 6/15/2016 Chatham 3,924 Old Queen Anne Rd 3,500 S of Stepping Stones Rd Site Code: 20551 Χ -69.9741 Υ 41.6906 7/30/2012 4 Poor to Fair Chatham 3,832 Old Queen Anne Rd 2,900 Cracking. some repairs and rutting S of Stepping Stones Rd Site Code: 20551 -69.9741 Υ 41.6906 Χ 2 Good to Very Good 8/8/2016 Chatham 14,415 Queen Anne Rd Harwich 11,000 E of Rt 137 Site Code: 20552 Χ -70.0150 Υ 41.7005 3 7/30/2012 Fair to Good 11,767 Chatham Queen Anne Rd Harwich 8,900 some wear and cracking E of Rt 137 Site Code: 20552 Χ -70.0150 Υ 41.7005 2 Good to Very Good 7/22/2015 4,893 Chatham Queen Anne Rd 3,700 S of Rt 28 Site Code: 21188 -69.9672 Υ 41.6849 Χ 7/22/2015 2 Good to Very Good Chatham 2,663 Ridgevale Rd 2,000 S of Rt 28 Site Code: 20553 -70.0083 41.6843 Χ 3 Fair to Good 6/15/2016 2,438 Chatham Sam Ryder Rd 2,200 N of Middle Rd Site Code: 20791 Χ -70.0062 Υ 41.6881 6/22/2015 3 Fair to Good 2,512 Chatham Sam Ryder Rd 2,200 N of Middle Rd Site Code: 20791 -70.0062 41.6881 Χ Υ 3 07/28/2014 Fair to Good 2,774 Chatham Sam Ryder Rd 2,100 N of Middle Rd Site Code: 20791 -70.0062 Χ Υ 41.6881

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 Fair to Good 7/24/2013 2,670 Chatham Sam Ryder Rd 2,000 sealed cracks N of Middle Rd Site Code: 20791 -70.0062 41.6881 Χ Υ 3 Fair to Good 7/9/2012 Chatham 2,511 Sam Ryder Rd 1,900 cracks with repairs N of Middle Rd Site Code: 20791 -70.0062 Υ Χ 41.6881 3 7/19/2011 Fair to Good Chatham 2,690 Sam Ryder Rd 2,000 repairs are holding together N of Middle Rd Site Code: 20791 -70.0062 Υ 41.6881 Χ 3 Fair to Good 7/22/2015 Chatham 3,282 Sam Ryder Rd 2,500 S of Middle Rd Site Code: 20792 Χ -70.0064 Υ 41.6876 3 08/12/2014 Fair to Good Chatham 6,971 Shore Rd Site Code: 5,300 S of Barcliff Ave 21328 Χ -69.9524 Υ 41.6887 3 Fair to Good 7/24/2013 5,021 Chatham Shore Rd 3,800 crack sealing, minor rutting N of Main St Site Code: 20566 -69.9492 Υ 41.6771 Χ 7/20/2015 4 Poor to Fair Chatham 3,778 Stage Harbor Rd 2,900 S of Rt 28 Site Code: 20570 -69.9621 41.6817 Χ 3 Fair to Good 07/30/2014 3,909 Chatham Stage Harbor Rd 3,000 S of Rt 28 Site Code: 20570 Χ -69.9621 41.6817 3 07/30/2014 Fair to Good 4,689 Chatham Stepping Stones Rd 3,600 E of Old Queen Anne Rd Site Code: 20571 -69.9739 41.6917 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

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION** TOWN Begin Date: **AADT** 1 08/12/2014 New Chatham 2,311 **Training Field Rd** 1,800 S of Echo Ln Site Code: 20573 -69.9906 41.7076 Χ Υ 2 Good to Very Good 6/13/2016 **Brewster** 3,331 Rt 124 3,000 N of Rt 137 Site Code: 20580 Χ -70.0827 Υ 41.7570 6/11/2012 3 Fair to Good **Brewster** 2,923 Rt 124 2,600 Patching Some Cracks N of Rt 137 Site Code: 20580 -70.0827 Υ 41.7570 Χ 3 Fair to Good 6/13/2016 **Brewster** 3,280 Rt 137 2,900 W of Rt 124 Site Code: 7142 -70.0835 Υ 41.7554 Poor to Fair 6/11/2012 4 3,014 **Brewster** Rt 137 2,700 Repairs Cracking and Rutting W of Rt 124 Site Code: 7142 -70.0835 Υ 41.7554 Χ 4 Poor to Fair 8/1/2011 3,755 **Brewster** Rt 137 2,900 Transverse, longitudinal, and alligator cracking W of Rt 124 Site Code: 7142 -70.0835 Υ 41.7554 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 8/19/2013 6,617 Poor to Fair **Brewster** Rt 28 **Orleans** 5,000 rutting, cracks @ Brew/Orle TL Site Code: 20583 Χ -69.9923 Υ 41.7294 6/13/2016 3 Fair to Good 10,952 **Brewster** Rt 6A 9,700 E of Rt 124 Site Code: -70.0825 20586 41.7613 Χ Υ Poor to Fair 7/15/2014 4 14,185 **Brewster** Rt 6A 10,800 Heavy rutting E of Rt 124 Site Code: 20586 -70.0825 Χ Υ 41.7613

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions TOWN ROUTE & LOCATION** Begin Date: **AADT** 2 7/25/2016 Good to Very Good 778 **Brewster** Ellis Landing Rd 590 Site Code: N of Rt 6A 21406 Χ -70.0547 41.7705 Υ 2 Good to Very Good 6/13/2016 **Brewster** 3,070 Freemans Way 2,700 W of Rt 6 Site Code: 20577 Χ -70.0233 Υ 41.7372 6/11/2012 2 Good to Very Good **Brewster** 2,836 **Freemans Way** 2,500 W of Rt 6 Site Code: 20577 -70.0233 Υ 41.7372 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 7/25/2016 3 Fair to Good 887 **Brewster Linnell Landing Rd** 670 Some cracking N of Rt 6A Site Code: 20578 Χ -70.0386 Υ 41.7751 3 Fair to Good 6/13/2016 3,345 **Brewster** Millstone Rd 3,000 N of Rt 137 Site Code: 20579 -70.0536 Υ 41.7426 6/11/2012 4 Poor to Fair 3,134 **Brewster** Millstone Rd 2,800 Cracking And Some Patching N of Rt 137 Site Code: 20579 -70.0536 41.7426 3 6/23/2015 4,189 Fair to Good **Brewster** Millstone Rd 3,700 S of Rt 6A Site Code: 7144 -70.0440 Υ 41.7725 Χ 8/19/2014 Fair to Good 4,941 **Brewster** Millstone Rd 3,800 Cracks sealed. S of Rt 6A Site Code: 7144 -70.0440 41.7725 Χ Υ 8/3/2011 Fair to Good 5,315 **Brewster** Millstone Rd 4,000 Minor edge cracking, otherwise repairs holding S of Rt 6A Site Code: 7144 -70.0440 Χ Υ 41.7725

Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions** TOWN **ROUTE & LOCATION** Begin Date: **AADT** 2 7/25/2016 Good to Very Good 962 **Brewster Paines Creek Rd** 730 Site Code: N of Lower Rd 21408 41.7564 Χ -70.1112 Υ 4 Poor to Fair 6/11/2012 **Brewster** 4,812 Satucket Rd 4,300 Cracking Repairs Rutting W of Red Top Rd Site Code: 20589 Χ -70.1319 Υ 41.7322 7/15/2014 3 Fair to Good **Brewster** 5,650 Satucket Rd 4,300 W of Stony Brook Rd Site Code: 20782 -70.1150 Υ 41.7429 Χ 3 Fair to Good 6/23/2015 **Brewster** 5,469 **Underpass Rd** 4,900 S of Rt 6A Site Code: 20594 -70.0663 Υ 41.7647 Χ 2 7/27/2016 Good to Very Good 15,473 Orleans Rt 28 11,800 N of Rt 39 Site Code: 20623 Χ -69.9910 Υ 41.7527 4 Poor to Fair 6/23/2015 12,317 **Orleans** Rt 28 11,000 N of Rt 39 Site Code: 20623 -69.9910 Υ 41.7527 Χ 8/21/2013 4 Poor to Fair **Orleans** 14,673 Rt 28 11,200 rutting, cracks, wear N of Rt 39 Site Code: 20623 -69.9910 41.7527 Χ 3 Fair to Good Orleans 7/18/2012 14,646 Rt 28 11,100 Rutting N of Rt 39 Site Code: 20623 Χ -69.9910 Υ 41.7527 8/3/2011 Fair to Good 15,947 **Orleans** Rt 28 12,100 minor edge & transverse cracking, rutting N of Rt 39 Site Code: 20623 -69.9910 41.7527 Χ Υ 3 8/21/2013 Fair to Good 7,551 **Orleans** Rt 28 5,700 cracks, rutting, wear S of Rt 39 Site Code: 20624 Χ -69.9909 Υ 41.7517

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations Pavement Conditions **ADT ROUTE & LOCATION** TOWN Begin Date: **AADT** 3 7/17/2013 Fair to Good Wellfleet 1,947 **West Main St** 1,500 Sealed cracks, rutting N of Old Chequesett Neck Rd Site Code: 21311 Χ -70.0370 Υ 41.9396 3 Fair to Good 8/19/2014 Wellfleet 2,320 West Rd 1,800 W of Rt 6 Site Code: 20680 41.8827 Χ -69.9890 Υ 7/17/2013 3 Fair to Good Wellfleet 2,179 West Rd 1,700 Patches, Crack Sealed W of Rt 6 Site Code: 20680 -69.9890 Υ 41.8827 Χ 3 Fair to Good 8/7/2012 21,685 Truro Rt 6 16,500 Linear Cracking S of Rt 6A Site Code: 20690 -70.0763 Υ 42.0264 Χ 8/17/2015 3 Fair to Good 14,812 Truro Provincetow Rt 6 11,300 @ Trur/Prov TL Site Code: 20692 Χ -70.1470 Υ 42.0644 3 Fair to Good 8/11/2015 14,842 **Truro** Provincetow Rt 6 11,300 @ Trur/Prov TL Site Code: Υ 20692 -70.1470 42.0644 Χ 7/10/2012 2 Good to Very Good 18,986 Truro Rt 6 14,400 N of Truro Central School Site Code: 20693 -70.0724 Χ 42.0201 3 Fair to Good 7/16/2012 16,470 Truro Rt 6 12,500 Rutting S of Union Field Rd Site Code: 20694 Χ -70.0490 41.9976 8/3/2015 Fair to Good 3,371 Truro Rt 6A 2,600 N of Pond Rd Site Code: 20803 -70.0856 42.0344 Χ Υ 3 7/30/2013 Fair to Good 2,915 Truro Rt 6A 2,200 cracking, weathering N of Pond Rd Site Code: 20803 -70.0856 Χ Υ 42.0344

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Printed: 12/7/2016 Cape Cod Pavement Management System - ATR Locations **ADT Pavement Conditions TOWN ROUTE & LOCATION** Begin Date: **AADT** 8/2/2011 4 Poor to Fair 614 **Truro** Hughes Rd (S End) 470 transverse & edge cracking W of Rt 6A Site Code: 20686 -70.0795 42.0288 Χ Υ 4 Poor to Fair 8/20/2013 Truro 727 Long Nook Rd 550 rutting, cracks E of Rt 6 Site Code: 21302 Χ -70.0626 Υ 42.0072 7/30/2013 4 Poor to Fair **Truro** 578 **North Pamet Rd** 440 cracking, rutting N of Rt 6 exit Site Code: 21300 -70.0481 Υ 41.9948 Χ 3 Fair to Good 7/10/2012 387 Truro **Old County Rd** 290 linear and transverse cracking S of Prince Valley Rd Site Code: 20688 -70.0652 Υ 41.9655 Χ 3 7/30/2013 Fair to Good 742 Truro **Old County Rd** 560 alligator cracks N of Ryder Beach Rd Site Code: 21298 Χ -70.0682 41.9696 2 Good to Very Good 8/3/2015 3,771 Truro Shore Rd 2,900 N of Stotts Crossing Site Code: 21303 -70.1200 Υ 42.0506 3 Fair to Good 8/20/2013 3,880 Truro Shore Rd 2,900 weathering, cracks N of Stotts Crossing Site Code: 21303 -70.1200 42.0506 7/29/2015 1,359 Good to Very Good Truro South Highland Rd 1,000 E of Rt 6 Site Code: 20744 Χ -70.0721 42.0223 8/3/2015 Good to Very Good 1,667 Truro South Highland Rd 1,300 Site Code: N of Highland Light Rd 21351 -70.0663 42.0389 2 7/29/2015 Good to Very Good 1,266 Truro South Highland Rd 960 Site Code: S of Moses Way 21352 Χ -70.0687 Υ 42.0259

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