

# **Intelligent Transportation Systems Deployment Tracking Survey Data Repository:**

## **User's Guide**

[www.its.dot.gov/index.htm](http://www.its.dot.gov/index.htm)

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# Chapter 1. Introduction

This document describes the Deployment Tracking Surveys (DTS) Data Repository. The goal of establishing the DTS Data Repository was to make the extensive amount of deployment data collected over the years by the United States Department of Transportation (USDOT) Intelligent Transportation System Joint Program Office (ITS JPO) available to interested researchers, policy makers, and others for exploration, analysis and use.

The DTS Data Repository contains data collected from a series of nationwide surveys conducted over the past twenty years. Surveys included in the repository are divided into two categories: the Deployment Tracking Survey (1999 to 2016) and Special Topic Deployment Surveys. The Deployment Tracking Survey was conducted a total of ten times between 1999 and 2016. Two Special Topic Deployment Tracking Surveys were conducted in 2019: the Connected Vehicle and Automated Vehicle (CV/AV) Survey and the Small Urban and Rural Transit Survey.

The various deployment tracking survey instruments were designed to collect data characterizing ITS technology deployment, as well as programs and policies implemented to support ITS. Originally, the DTS results were used to measure ITS deployment progress in the largest Freeway, Arterial, and Transit agencies at the national and metropolitan level. Currently, the ITS JPO uses the results of the DTS to, among other things, respond strategically to ITS deployment gaps and execute technical transfer activities that help states and local agencies plan and execute ITS deployments.

# Chapter 2. Deployment Tracking Methodology

This chapter provides a high-level overview of the methodology used for the Deployment Tracking Surveys (1999-2016), the Connected Vehicle and Automated Vehicle (CV/AV) Survey (2019), , and other special population surveys, such as the Small Urban and Rural Transit Survey (2019), Electronic Toll Collection Surveys(1999-2010).

## Deployment Tracking Surveys (1999-2016)

Data collection during the first few years of the DTS centered on 75 of the Nation's Largest Metropolitan areas. In 2002, the survey population expanded to include three additional large metropolitan areas (at the request of those cities) and 30 medium-sized metropolitan areas experiencing high congestion. A total of ten surveys were conducted in the following years: 1999, 2000, 2002, 2004, 2005, 2006, 2007, 2010, 2013, and 2016.

State, Regional, and Local transportation agencies owning and operating highway, arterial, and transit transportation infrastructure in each subject metropolitan area were identified using information provided by Metropolitan Planning Organizations (MPOs). Agency contact names and addresses were validated and a data base containing the name, address, telephone number and email address of each contact was prepared. Prior to administering each DTS, the research team notified all contacts of the upcoming survey and requested that they confirm whether or not they are the appropriate contact. The research team developed alternate contacts as needed.

Five types of surveys were developed: Freeway Management, Arterial Management, and Transit Management, Electronic Toll Collection, and Incident Management (Electronic Toll Collection and Incident Management surveys are described in more detail below under "Other Surveys"). Questions for each survey were developed through a consultative process conducted with USDOT Subject Matter Experts (SMEs) to ensure continued relevancy of survey results. The DTS data repository currently includes only the Freeway, Arterial, and Transit surveys that were administered from 1999 to 2016, but the other surveys will be added in the near future.

Selected questions were repeated each year so trends could be developed for tracking purposes. However significant revisions to survey questions were made each year to reflect changes in program and practice. In the early of years of the DTS, data collection focused on intelligent infrastructure components such as surveillance and control technologies. In recent years, the data collection expanded to include concepts such as Integrated Corridor Management (ICM) and Connected Vehicle and Automated Vehicle technologies.

Surveys in the first few years were self-administered paper survey instruments that were completed by hand and returned via mail. Starting in 2004, agency contacts were emailed a link to complete an on-line survey. Follow-up emails and telephone calls were then made to encourage responses.

## **DTS Data Limitations (1999 to 2016)**

### ***Missing Values***

The data collected reflect the responses provided by agency staff and were accepted as provided. Every effort was made to encourage an agency response each year a survey was conducted and in fact a large proportion of agencies did provide a response for every year of the survey. However, there were years when a response was not provided for an agency resulting in missing values for those years.

### ***Errors in Response***

In some cases, estimates of deployment for an agency (e.g., freeway center line miles under surveillance) may contain error due to interpretation of the question by the respondent. As an example, when asked to provide the number of freeway centerline miles under surveillance in the metropolitan area, a respondent may have provided a response related to an area larger or smaller than the metropolitan area boundary (i.e., boundary error). Also, a respondent may have provided a response in total miles rather than centerline miles, where centerline miles account for both directions of travel in the case of freeway facilities (i.e., unit of measure error). In such a case, the number of centerline miles may be greatly understated, perhaps as high as 50%, if miles are used rather than centerline miles. These types of response errors may explain, at least in part, the significant fluctuations that exist for some of the trend data.

## **2019 Connected Vehicle and Automated Vehicle Survey (*Data and Report forthcoming*)**

The 2019 CV/AV Survey was administered as part of an ongoing effort by the Intelligent Transportation Systems (ITS) Joint Program Office (JPO) to track the deployment of ITS. The survey focuses on CV and AV technologies and was designed to address the following key questions:

- What are current levels of CV and AV testing/deployment?
- What are agencies' level of readiness with respect to CV and AV?
- What are the key challenges and barriers to CV and AV deployment?
- What assistance/resources are needed to overcome challenges and barriers?

The 2019 CV/AV survey utilized Freeway, Arterial, and Transit agency contact lists developed for previous DTS. These lists included agencies from 78 large metropolitan areas and 30 medium size cities. Invitations to the online survey were sent to 753 freeway management, arterial management, and transit management agencies. Online data collection ran from October 7th to December 31st 2019. The final response rate was 60 percent, resulting in 475 completed surveys (66 freeway management, 301 arterial management, and 108 transit management).

## Special Topic Deployment Surveys

In addition to the surveys of freeway, arterial, and transit agencies, the ITS JPO has administered a series of special topic surveys, which include surveys tailored to other agency types. Each of the surveys is described in more detail below.

### 2019 Small Urban and Rural Transit Survey

The ITS JPO conducted the Small Urban and Rural Transit Survey in response to a General Accountability Office (GAO) recommendation that the ITS JPO should track the deployment of ITS within small urban and rural areas. The GAO's recommendation stemmed from its own evaluation of ITS deployment among transit providers, which included a small urban and rural transit provider survey administered in 2015. The 2019 Small Urban and Rural Transit Survey used the GAO's original questionnaire, adding a few new questions related to Connected Vehicles (CV), Automated Vehicles (AV), and partnerships with private transportation providers

To provide data comparable to the GAO's 2015 survey, the 2019 survey replicated the GAO's sampling methodology.<sup>1</sup> The sample frame was constructed from the National Transit Database, yielding 325 small urban and 621 rural transit providers. A stratified sampling approach was used to select separate samples of small urban and rural transit providers. Invitations to the online survey were sent to a sample of 152 small urban and 177 rural transit providers. The survey was fielded between September 9, 2019, and October 28, 2019. The final response rate was 74 percent, resulting in 244 transit agencies (107 small urban and 137 rural) that completed the survey. The data were weighted to reflect accurately the distribution of small urban and rural transit providers within the population. Data users should use the weighting variable [WEIGHT] when analyzing the data.

### 1999 – 2013 Electronic Toll Collection (ETC) Survey

Data collected from toll road and bridge operators in 78 of the Nation's Largest Metropolitan Areas and 30 Medium Sized Metropolitan areas. Data collected included ETC technologies and bridge and toll road operations.

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<sup>1</sup> For more information on sampling methodology see *Intelligent Transportation Systems: Findings from the Small Urban and Rural Transit Provider Survey, FHWA-ITS-20-799, forthcoming.*

## **1999 – 2013 Incident Management Survey**

Data collected from Fire Rescue and Law Enforcement agencies in 78 of the Nation's Largest Metropolitan Areas and 30 Medium Sized Metropolitan areas. Data gathered included incident management programs, policies, and technologies.

## **Metropolitan Planning Organization Survey**

Data collected from Metropolitan Planning Organizations in 78 of the Nation's Largest Metropolitan Areas and 30 Medium Sized Metropolitan areas. Data gathered included planning for Intelligent Transportation System (ITS) deployment and related descriptive statistics.

## **Transportation Management Center (TMC) Survey**

Data collected from State Departments of Transportation (DOTs) describing the functions performed and the technologies applied by Transportation Management Centers (TMCs) located throughout the nation. Data included surveillance technologies as well as traffic management, traveler information programs, and funding.



# Chapter 3. Deployment Tracking Surveys (DTS) Data Repository Contents

The DTS Data Repository includes files related to the Deployment Tracking Survey (1999 to 2016) and two Special Topic Deployment Surveys.

## Deployment Tracking Survey (1999 to 2016)

Each survey year includes: 3 survey instruments (Freeway, Arterial, and Transit), 3 data files (Freeway, Arterial, and Transit), and 1 summary report. A description of the files is provided below.

**1999-2016 Survey Instruments** – Freeway, Arterial and Transit Management survey instruments used to collect data from 1999 to 2016 – **30 survey files**

**1999-2016 Deployment Data** – Excel data workbooks (that also include data dictionaries) associated with the Freeway, Arterial, and Transit surveys – **30 data files**

**1999-2016 Final Reports** – For each survey year, a Summary Report was prepared synthesizing key findings and trends (10 files)

**1999-2016 Common Survey Questions** – Three files (one for each survey type – Freeway, Arterial, and Transit) that group common questions across all survey years (1999 to 2016). The questions are organized by key topic area – **3 files**

## 2019 Connected Vehicle and Automated Vehicle (CV/AV) Survey

**2019 Connected Vehicle and Automated Vehicle (CV/AV) Survey** – 2019 CV/AV Codebook -1 codebook file, one 2019 CV/AV data file with codebook data formatting, one survey instrument, Excel data files with updated coding format – 1 survey file, 3 data files (Freeway, Arterial Transit), 1 Common Questions file – 1 Excel file – Total of 9 files.

## Special Topic Deployment Surveys

A summary of the special topic survey files is provided below.

**2019 Small Urban and Rural Transit Survey** – Questionnaire, Excel data file and Summary Report – **1 survey file, 1 data file**

\*Note that the 2019 Small Urban and Rural Transit survey includes a weighting variable [WEIGHT] that should be used when analyzing data to accurately reflect the distribution of small urban and rural transit providers within the population.

**1999-2013 Electronic Toll Collection (ETC) Survey** – Questionnaire, Excel data file and Common Questions file – **1 survey file, 1 data file, 1 common questions file.**

**1999-2013 Incident Management Survey** – Questionnaires, Excel data files, and Common Questions files – **2 survey files, 2 data files, 2 common questions file.**

**Metropolitan Planning Organizations (MPO) Survey** – Questionnaires, Excel data files and Common Questions files – **3 survey files, 3 data files – 1 common questions files.**

**Traffic Management Center (TMC) Survey** – Questionnaires, Excel data files and Common Questions files – **5 survey files, 5 data files – 1 common questions files.**

# Chapter 4. Common Survey Questions Workbooks (1999-2016)

This chapter provides a more in-depth look at the 1999 -2016 Common Survey Questions workbook, as these files are a useful way to begin exploring the contents of the DTS data repository. The **Common Survey Questions** workbook provides the data user with an understanding of the topics and survey questions available for analysis. Within the data repository, there are three **Common Survey Questions** workbooks, each corresponding to one DTS: Freeway Management, Arterial Management, and Transit Management. Each workbook contains a complete set of questions asked in the survey instruments from 1999 to 2016.

Each **Common Survey Questions workbook** includes an **index worksheet** summarizing the topics covered in the DTS, and several **topic worksheets** that provide detailed information including question wording, response choices, variable names, variable formats, and survey year.

## Index Worksheet

The **index worksheet** is a guide to the contents of the various **topic worksheets** in the workbook. The index lists the topics covered in the DTS from 1999 to 2016 (e.g., 511, Auto Enforcement, Incident Management, etc.). Figure 1 displays (non-expanded) elements of the Index worksheet for the **Freeway Management Common Survey Questions** workbook. If a user does not see a topic they are interested in listed, consider using the search function within Excel (ALT-F), as there may be a question on the topic in the database, even if it is not identified as an Index topic. Users also may want to search on other, similar related terms (for example, in addition to searching on “variable message signs” the user could search on “dynamic message signs”).

	1999	2000	2002	2004	2005	2006	2007	2010	2013	2016
1	<b>FREeway MANAGEMENT SURVEYS</b>									
2										
3	<b>511</b>									
54	<b>Auto Enforcement</b>									
72	<b>Communications</b>									
82	<b>Connected Vehicles (CV)</b>									
177	<b>Data Archiving</b>									
333	<b>DMS</b>									
402	<b>DSRC</b>									
421	<b>ICM</b>									
692	<b>Incident Management</b>									
846	<b>Integration</b>									
1311	<b>ITS Work Zones</b>									
1335	<b>Maintenance</b>									
1382	<b>Managed Lanes</b>									
1453	<b>Miscellanea</b>									
1715	<b>National ITS Architecture</b>									
1794	<b>Operations Plans and Procedures</b>									
1871	<b>Plan for Operations</b>									
1884	<b>Ramp Meters</b>									
1946	<b>Road Weather</b>									

**Figure 1- Index Worksheet in Freeway Management “Common Survey Questions” Workbook**

Initially, various rows and columns of the **Index** worksheet are hidden to simplify the display. The appearance of the Index worksheet can be changed by using various buttons (labeled 1, 2, 3, 4) and “+” or “-” symbols. Selecting these buttons, or symbols, will expand rows and columns to reveal, or hide, additional information for each Topic.

Figure 2 displays the first several rows and columns for the **fully expanded Freeway Management Index worksheet**. Under the “511” topic, several “sub-topics” are highlighted in black including “511 Services.” Under each of these sub-topics, are included a number of rows describing question types including one labeled “Operational 511.”

- Topic: 511
- Subtopic: 511 Services
- Question: Operational 511
- Variable Type: Multiple Choice
- Row in Topic Worksheet: 13
- Year: 2004
- Question number/wording: Q15 (hover over the year to get question number and wording)

The information provided in this figure indicates that “Operational 511” refers to a multiple-choice question asked in Question 15 of the 2004 survey and located in row 13 of the “511” topic worksheet. To learn more details regarding this question, the user must turn to the “511” topic worksheet and explore rows related to the “511 Services” sub-topic.

Variable Type	Row	1999	2000	2002	2004	2005	2006	2007	2010	2013	2016
<b>511 Services</b>											
Operational 511	Multiple Choice	13									
Operational Status	Multiple Choice	21									
Deployment Date	Text	29									
<b>511 Basic Services</b>											
Basic Content	Boolean	38									
Operational content (premium service) for specific users provided for a fee	Boolean	45									
Traveler and tourist information	Boolean	53									
Roadway information	Boolean	60									
Public transportation	Boolean	67									
Describe optional content:	Text	74									
Voice Recognition	Multiple Choice	82									
Language	Multiple Choice	90									
Hours	Multiple Choice	98									
Hours Other	Text	105									
<b>Sources of 511 Information</b>											
Public safety (incident information)	Boolean	114									
State police	Boolean	121									
Local agencies	Boolean	128									

Figure 2- Expanded Index Worksheet in Freeway Management Common Survey Questions Workbook

### Topic Worksheets

Figure 3 presents the “511” topic worksheet for the Freeway Management Common Questions workbook. Highlighted in black are sub-topics, including “511 Services.” The rows of this worksheet can be expanded (or collapsed) by selecting a numbered button (1 or 2) or a system (“+,” “-”).

		1999	2000	2002	2004	2005	2006
<b>511</b>							
		Choices (in batteries)					
<b>511 SERVICES</b>							
Question Wording					Does your agency have or plan to have an operational 511 system?		
					What is the status?		
					What is the deployment date?		
<b>511 BASIC SERVICES</b>							

Figure 3 – Topic Worksheet for “511” Topic in Freeway Management Common Survey Questions Workbook

Figure 4 presents the results of fully expanding the “511” topic worksheet to reveal the questions asked under the sub-topic “511 Services.” Note that the question “Does your agency have or plan to have an operational 511 system?” was asked in questions 15 of the 2004 Freeway Management survey and this

question is coded in a Multiple Choice format (0=No;1=Yes;2=No Response). Within the 2004 Freeway Management, this question is labeled: "04\_FM\_Q15\_1C01R01." Given this variable name, a user may now find the responses to this question in the 2004 Freeway Management data file.

	A	B	C	D	E	F	G	H	I
2		511							
3			Choices (in batteries)	1999	2000	2002	2004	2005	2006
5									
6									
7		511 SERVICES							
8		Question Wording					Does your agency have or plan to have an operational 511 system?		
9		Question # (Where to find in survey)					15		
10		Question Format					Multiple Choice		
11		Values					0,1,2		
12		Value Labels					0=No,1=Yes,2=No Resp		
13		Survey Variable1 Name	Operational 511				Operational511System		
14		Data File Variable1 Name					04_FM_Q15_1R01C01		
15									
16							What is the status?		
17		Question # (Where to find in survey)					15		
18		Question Format					Multiple Choice		
19		Values					0,1,2		
20		Value Labels					0=No,1=Yes,2=No Resp		
21		Survey Variable1 Name	Operational Status				Operational511Status		
22		Data File Variable1 Name					04_FM_Q15_2R01C01		
23									
24							What is the deployment date?		
25		Question # (Where to find in survey)					15		
26		Question Format					Text		
27		Values							
28		Value Labels							
29		Survey Variable1 Name	Deployment Date				Operational511Deploy		
30		Data File Variable1 Name					04_FM_Q15_2R02C01TX		
31									

Figure 4 – Expanded “511” Topic Worksheet in Freeway Management Common Questions Workbook

To summarize. It is recommended that potential data users explore the contents of the **Common Survey Questions workbook** to understand the data contained in the repository for the 1999 -2016 DTS. The **Index worksheet** lists the topics contained in the data and the wording of specific questions asked under a topic for a particular year or set of years. If a user is interested in the data contained under a topic, additional details are provided under various **Topic worksheets** in the workbook. Details provided in the **Topic worksheet** include the variable names which the user can use to extract the required data from the appropriate data file.

Please note that any Index worksheets (and topic worksheets) may not include all questions on the given topic. Some of the survey questions are cross-cutting, but they were categorized under a single topic based on the best fit. For example, a user interested in incident management questions would search the Incident Management Index Worksheet; however, the Integrated Corridor Management (ICM) Index also includes a question on incident management. As a result, in addition to using the Index and Topic worksheets, it is recommended that users also use the Excel search function (ALT-F) for a more comprehensive search. In addition, if users cannot find questions on a certain topic, consider searching for other, similar terms (e.g., dynamic message signs and variable message signs). Finally, users can also review the survey questionnaires to identify questions of interest.

# Chapter 5. Survey Data Files for Deployment Tracking Survey (1999-2016)

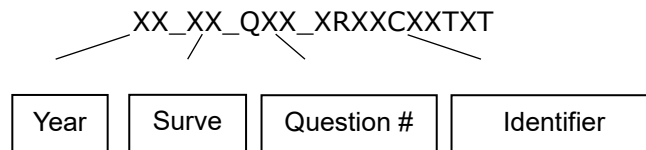
This chapter provides more detailed information on the development and contents of the data files, data dictionaries, and variable summary statistics for the Deployment Tracking Surveys (1999-2016).

## DTS Data Preparation

Survey data were entered into Microsoft Excel workbooks using consistent coding formats and variable naming convention. Variables are coded using one of four formats:

- Numeric (integer value);
- Boolean (0,1);
- Multiple-Choice (integer value based on question selection options);
- Text.

In addition, a consistent variable name structure was developed to ensure a unique variable name for each of the variables in the data base:



Where:

- Survey Year – e.g. 99,00,02, etc.;
- Survey – FM, AM, TM;
- Question # – Question number in survey;
- Identifier - Sub-question code;
- TXT – added if variable is text format.

Each Excel data file workbook contains three worksheets: one entitled “Data,” and a second entitled “Data Dictionary,” and a third one entitled “Var Summ Stats”

## Data Worksheet

Figure 5 presents an example **Data worksheet**. One record was created for each returned survey for each year (shown as a row in the data file). The data files, although unique to each survey year, contain a set of consistent variables. The first three columns of the file contain the following variables for each record:

- MetroArea – Name of Metropolitan Area where agency is located;
- AgencyName – Name of Agency returning survey<sup>2</sup>;
- AgencyNumber - Unique ID number that was used in each survey year in order to allow matching of survey respondents over time.

	A	B	C	D	E	F	G	H	I
	MetroArea	AgencyName	AgencyNumber	16_FM_Q01_1R01C01	16_FM_Q02_1R01C01	16_FM_Q02_2R01C01	16_FM_Q02_3R01C01	16_FM_Q03_1R01C01	16_FM_Q03_1R02C01
1	Albany-Schenectady-Troy, NY	New York State Department of Transportation	13	390	30	30	0	0	0
2	Atlanta-Sandy Springs-Marietta, GA	Georgia Department of Transportation	69	1265	1265	295	970	0	0
3	Austin-Round Rock, TX	Texas Department of Transportation Austin District	95	98	91	91	64	0	1
4	Bakersfield, CA	Caltrans District 6	103	250	70	70	0	0	0
5	Baltimore-Towson, MD	Maryland State Highway Administration	128	410	410	344	410	0	1
6	Buffalo-Niagara Falls, NY	New York State Department of Transportation	213	41	33	33	33	1	1
7	Charlotte-Gastonia-Concord, NC-SC	Metrolina Regional Transportation Management Center (North Carolina DOT)	252	170	0	0	0	0	0
8	Chicago-Naperville-Joliet, IL-IN-WI	Indiana Department of Transportation	302	114	114	21	114	0	1
9	Chicago-Naperville-Joliet, IL-IN-WI	ISTHA	305	302	302	302	302	1	1
10	Cincinnati-Middletown, OH-KY-IN	TRW/ARTIMIS OCC for Ohio Department of Transportation	370	250	250	250	0	0	0
11	Cleveland-Elyria-Mentor, OH	Ohio Department of Transportation District 12	415	300	300	300	0	0	0
12	Akron, OH	Ohio Turnpike Commission	417	241	0	0	0	0	0
13	Columbus, OH	Ohio Department of Transportation	444	1500	1500	0	1500	0	0
14	Dallas-Fort Worth-Arlington, TX	Texas Department of Transportation Fort Worth District (TransVISION)	502	3335	222	222	0	0	0
15	Dayton, OH	Ohio Department of Transportation District 7	525	213	213	213	0	0	0
16	Denver-Aurora, CO1/	Colorado Department of Transportation	541	400	400	400	400	1	1
17	El Paso, TX	Texas Department of Transportation-El Paso District	643	100	50	50	0	0	1
18	Fresno, CA	Caltrans District 6	645	173	160	70	0	0	0

Figure 5 – Data Workbook “Data” Worksheet

## Data Dictionary

Figure 6 presents an example **Data Dictionary (DD)** worksheet. The data dictionary serves as a guide relating the questions contained in a survey to the Survey Variable Name, Data File Variable Name, Variable Format, Possible Variable Values, and Value Labels.

<sup>2</sup> The name of an agency may have changed over time because of realignment due to administrative boundary changes due to US Census updates over time.



A	B	C	D	E	F	G	H
Q#	Question	Survey Variable Descriptor	Data File Variable Name	Variable Format	Values	Value Labels	
01	Total freeway centerline miles operated by your agency:	TotalMiles	16_FM_Q01_1R01C01	Numeric			
02	Total number of freeway centerline miles with real-time traffic data collection technologies (does not include Closed Circuit TV or CCTV):	MilesUnderSurveillance	16_FM_Q02_1R01C01	Numeric			
02	Number of these miles where real-time traffic data are collected using roadside infrastructure such as loops, radar detectors, or video imaging detector systems:	MilesUnderSurvDetectors	16_FM_Q02_2R01C01	Numeric			
02	Number of these miles where real-time traffic data are collected by vehicle probe readers:	MilesUnderSurvProbes	16_FM_Q02_3R01C01	Numeric			

Figure 6 – Data Workbook “Data Dictionary (DD)” Worksheet

## Variable Summary Statistics

Figure 7 includes an example of the **Variable Summary Statistics (Var Summ Stats)** worksheet. This worksheet summarizes several characteristics of each variable in the data file including the question number, the Data File Variable Name (used in the column headings of the “Data” worksheet), the Survey Variable Name, the variable format, and summary statistics for the variable based on the variable format where:

- **Numeric** – includes a count of the number of records with non-missing values and the sum of these values;
- **Boolean** – a count of the responses for each possible response (N=No;Y=Yes;F=False;T=True;)
- **Multiple Choice** – a count of the responses for each possible response in the survey.

Q#	Data File Variable Name	Survey Variable Descriptor	Variable Format	Numeric		Boolean			Multiple Choice										
				Count	Sum	N	Y	Total	0	1	2	3	4	5	6	7	Total		
						F	T												
01	16_FM_Q01_1R01C01	TotalMiles	Numeric	89	31,203														
02	16_FM_Q02_1R01C01	MilesUnderSurveillance	Numeric	91	24,977														
02	16_FM_Q02_2R01C01	MilesUnderSurvDetectors	Numeric	77	11,381														
02	16_FM_Q02_3R01C01	MilesUnderSurvProbes	Numeric	77	13,649														
03	16_FM_Q03_1R01C01	TypeProbeToll	Boolean			80	15	95											
03	16_FM_Q03_1R02C01	TypeProbeBlue	Boolean			63	32	95											
03	16_FM_Q03_1R03C01	TypeProbeCell	Boolean			79	16	95											
03	16_FM_Q03_1R04C01	TypeProbeGPS	Boolean			80	15	95											
03	16_FM_Q03_1R05C01	TypeProbeOCR	Boolean			90	5	95											
03	16_FM_Q03_1R06C01	TypeProbeDoNotCollect	Boolean			50	42	92											
03	16_FM_Q03_1R07C01TXT	TypeProbeOtherText	Text																
04	16_FM_Q04_1R01C01	TotalDetectorStations	Numeric	87	74,710														

Figure 7 – Data Workbook “Var Summ Stats” Worksheet

# Chapter 6. Use Cases

This chapter presents two use cases as examples for how a user might conduct different searches.

## Use Case 1: Extracting Data for a Trend - Deployment Tracking Surveys (1999 to 2016)

The following steps may be used to examine a deployment trend for a particular technology (or other question) from the DTS Data Repository:

1. Open the relevant **Common Questions workbook** to the **Index worksheet**.
2. Locate the topic of interest in the DTS Data Repository by examining the Topic and Sub-Topic information contained in the **Index worksheet**
3. If the topic is contained in the DTS, identify the questions asked (by year) and the name of the variables in the associated data file from the **Topic worksheet**.
4. Open the relevant **agency data files** for each year containing the identified variable and extract the data associated with the variable.

The following example demonstrates how to locate trend data for a “Ramp Meters” Topic. In this case, the search identifies trends to the question: “Total number of metered ramps” for Freeway Management agencies.

**Step 1: Open the Index worksheet in the Freeway Management Common Survey Questions Workbook and locate “Ramp Meters” topic.**

**Step 2: Determine if the topic of interest is included in the DTS Data Repository by examining the Topic and Sub-Topic information contained in the Index worksheet**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	<b>FREEWAY MANAGEMENT SURVEYS</b>																
1871	<b>Plan for Operations</b>																
1884	<b>Ramp Meters</b>																
1885	<b>Ramp Meter Operations</b>																
1886	Operate Ramp Meters	Multiple Choice	13														
1887	Control Criteria	Text	21														
1888	Freeway Ramps	Numeric	29														
1889	Number Ramps	Numeric	37														
1890	Metered Ramps	Numeric	45														
1891	Not Operating Ramp Meters	Numeric	53														
1892	Time of day	Boolean	61														
1893	Incidents	Boolean	68														
1894	Special events	Boolean	75														
1895	Other	Boolean	82														
1896	Weather	Boolean	89														
1897	Evacuation	Boolean	96														
1898	Time of day specified	Text	103														
1899	Other Specified	Text	110														
1900	<b>Type of Ramp Meter</b>																
1901	Isolated Control	Numeric	110														

Notes: Expand the Index worksheet to reveal Topics and Sub-Topics. Topics are highlighted in red and Sub-Topics highlighted in black.

Notes: Expand a row under a “Sub-Topic” to reveal the “Subject(s)” addressed by survey question(s) along with the Variable Type and the row in the “Topic” worksheet containing information related to the question. In this example, “Metered Ramps” is in Numeric format and located in row 45 of the “Ramp Meters” topic worksheet.

**Step 3: Identify the questions asked, the names of the variables, and the the associated data files (survey year) by opening the “Ramp Meters” topic worksheet and locating the row containing “Metered Ramps.”**

Ramp Meters		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016
39	Question Wording	Total number of meter ramps	Total number of ramp meters	Total number of ramp meters	Total number of ramp meters	Total number of ramp meters	Total number of ramps with ramp metering capability operated by your agency	Total number of ramps with ramp metering capability operated by your agency	Total ramps with ramp metering capability	Total number of ramps with ramp metering	Total number of ramps with ramp metering
40	Question # (Where to find in survey)	08	08	02	02	02	05	05	14	11	09
41	Question Format	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric
42	Value Labels										
43	Survey Variable1 Name	Metered Ramps	TotalRamps1999	TotalRamps2000	TotalRamps2002	TotalRampMeters2004	TotalRampMeters2005	TotalRampMeters2006	TotalRampMeters2007	TotalRampMeters	TotalRampMeters
44	Data File Variable1 Name	99_FM_Q08_2R05C01	00_FM_Q08_1R01C01	02_FM_Q02_1R01C01	04_FM_Q02_1R01C01	05_FM_Q02_1R01C01	06_FM_Q05_1R01C01	07_FM_Q05_1R01C01	10_FM_Q14_1R01C01	13_FM_Q11_1R01C01	16_FM_Q09_1R01C01

Notes: Note that the question has been asked each year between 1999 and 2016. Capture the variables names for each year for use in extracting data from each data file.

**Step 4: Download the datasets for each year and run summary statistics on the ramp meter variable for each year survey.**

A	B	C	D	E	F	G	H
AgencyID	AgencyName	1999	2000	2002	2004	2005	2006
		99 FM Q08 2R05C01	00 FM Q08 1R01C01	02 FM Q02 1R01C01	04 FM Q02 1R01C01	05 FM Q02 1R01C01	06 FM Q05 1R01C01
13	New York State Department of Transportation	0	0	0	0	0	0
15	New York State Thruway Authority	0	0	0	0	0	0
33	Pennsylvania Turnpike Commission	0	0	0	0	0	0
69	Georgia Department of Transportation	5	5	5	5	9	8
95	Texas Department of Transportation Austin District	0	0	0	0	0	0
103	Caltrans District 6	0	0	0	0	0	0
128	Maryland State Highway Administration	0	0	0	0	0	0
143	Louisiana Department of Transportation	0	0	0	0	0	0
149	Alabama Department of Transportation	0	0	0	0	0	0
189	Massachusetts Highway Department	0	0	0	0	0	0
213	New York State Department of Transportation	0	0	0	0	0	0
215	New York State Thruway Authority	0	0	0	0	0	0
241	South Carolina Department of Transportation	0	0	0	0	0	0
252	Metrolina Regional Transportation Management Center (North Carolina DOT)	0	0	0	0	0	0
255	South Carolina Department of Transportation District Office	0	0	0	0	0	0
297	Illinois Department of Transportation	113	113	113	0	0	113
301	Indiana Department of Transportation Highway Operations	0	0	0	0	0	0
302	Indiana Department of Transportation	0	0	0	0	0	0

Notes: This is an example table consists data extracted from each data file for the appropriate variable. In this case, the values displayed are the number of metered ramps operated by an agency for each year. Data must include the Agency ID from each file.

## Use Case 2: Searching for Latest Data on a Topic

The following steps may be used to extract the **latest data on a particular topic** from the DTS Data Repository:

1. Open the **Common Questions** workbook to the **Index worksheet**.
2. Determine if the topic of interest is included in the DTS Data Repository by examining the Topic and Sub-Topic information contained in the **Index worksheet**.
3. If the topic is contained in the DTS, identify the questions asked and the name of the variables in the associated data file from the **topic worksheet**.
4. Open the relevant agency data file for the each year containing the question/variable and extract the data associated with the variable for post-processing. Include the Agency Number.

The following example demonstrates how to locate the latest data available for a “Connected Vehicles (CV)” Topic. In this case, the search identifies the latest answers to the question: “Does your agency have plans to deploy connected vehicle applications?” for Freeway Management agencies.

**Step 1: Open the Index Worksheet in the Freeway Management Common Survey Questions Workbook and locate Connected Vehicles (CV) topic.**

**Step 2: Examine the Topic and Sub-Topic information contained in the Index worksheet.**

	Variable Type	Row	1999	2000	2002	2004	2005	2006	2007	2010	2013	2016
<b>Connected Vehicles (CV)</b>												
<b>Connected Vehicle Applications Deployment</b>												
CV deployment plans	Multiple Choice	13										
When deployment expected	Multiple Choice	21										
<b>Planned Connected Vehicle Applications</b>												
Reduced Speed/Work Zone Warning (RSWZ)	Boolean	30										
Curve Speed Warning (CWS)	Boolean	37										
Other speed management applications	Boolean	44										
Pedestrian and bicycle	Boolean	51										

Notes: Expanding the Index worksheet to reveals the sub-topic “Connected Vehicle Applications Deployment” and the question “Does your agency have plans to deploy connected vehicle applications?”

**Step 3: Identify the questions asked and the name of the variables in the associated data file by opening the Connected Vehicles topic worksheet.**

Question # (Where to find in survey)	Question Format	Values	Value Labels	Survey Variable Name	Data File Variable Name
55	Multiple Choice	0,1,2	0=No,1=Yes,2=No Response	ConvehPlansDeploy	16_FM_Q55_1R01C01

Notes: Data for this question are located in the 2016 Freeway Management data file and the variable name in the file is “16\_FM\_Q55\_1R01C01.”

**Step 4: Download the relevant data file containing the variable “16\_FM\_Q55\_1R01C01,” and perform your analysis,**

				16_FM_Q55_	16_FM_Q55_
				1R01C01	2R01C01
1	MetroArea	AgencyName	AgencyNumber		
2	Albany-Schenectady-Troy, NY	New York State Department of Transportation	13	0	4
3	Atlanta-Sandy Springs-Marietta, GA	Georgia Department of Transportation	69	1	2
4	Austin-Round Rock, TX	Texas Department of Transportation Austin District	95	2	4
5	Bakersfield, CA	Caltrans District 6	103	1	3
6	Baltimore-Towson, MD	Maryland State Highway Administration	128	1	3
7	Buffalo-Niagara Falls, NY	New York State Department of Transportation	213	0	4
8	Charlotte-Gastonia-Concord, NC-SC	Metrolina Regional Transportation Management Center (North Carolina DOT)	252	0	4
9	Chicago-Naperville-Joliet, IL-IN-WI	Indiana Department of Transportation	302	0	4
10	Chicago-Naperville-Joliet, IL-IN-WI	ISTHA	305	1	3
11	Cincinnati-Middletown, OH-KY-IN	TRW/ARTIMIS OCC for Ohio Department of Transportation	370	1	1
12	Cleveland-Elyria-Mentor, OH	Ohio Department of Transportation District 12	415	1	1

## Alternate Approach

As an alternative to using the Common Questions Workbook, a user might also review the latest DTS survey to determine if the survey includes questions of interest. In the example of Connected Vehicles, the user would review the CV/AV survey. For other ITS technologies, the user would review the 2016 ITS DTS questionnaire. After reviewing the appropriate questionnaire a user can use the Common Questions Workbook or the data dictionary found in the data file corresponding to the survey.

## Use Case 3: Extracting Data for a Particular Agency (1999-2016 Deployment Tracking Surveys)

Each agency surveyed was assigned a unique Agency ID used each year to facilitate the ability to extract data for a particular agency both within a survey year and across survey years. The example below demonstrates how a user can extract a response for a Freeway Management question for the New York State Department of Transportation in the Albany, NY Metropolitan Area (Agency ID = 13). Some agencies answered both Freeway and Arterial surveys and this number is the same for both surveys.

The following steps can be used to extract data for a specific agency from the DTS Data Repository:

1. Open the Common Questions workbook to the Index worksheet.
2. Determine if the topic of interest is included in the DTS Data Repository by examining the Topic and Sub-Topic information contained in the Index worksheet.
3. If the topic is contained in the DTS, identify the questions asked and the name of the variables in the associated data file from the topic worksheet. (note question could be asked over multiple years)
4. Open the relevant agency data file(s) for the year(s) containing the variable and extract the data associated with the variable for post-processing.

If a user knows the data and variable names of interest, then the user may go directly to the data file to extract the data. Please note that data for a specific agency may not be available in every data file. Agencies may not have responded in each survey year. See appendices to this document to identify when a particular agency returned a specific survey.

The following example demonstrates how to locate the latest data available for an agency (Agency ID = 13) on a “Connected Vehicles (CV)” topic. In this case, the search identifies the latest answers to the question: “Does your agency have plans to deploy connected vehicle applications?” for Freeway Management agencies.

**Step 1: Open the Index Worksheet in the Freeway Management Common Survey Questions Workbook and locate Connected Vehicles (CV) topic.**

**Step 2: Examine the Topic and Sub-Topic information contained in the Index worksheet.**

Variable Type	Row	1999	2000	2002	2004	2005	2006	2007	2010	2013	2016
<b>Connected Vehicle Applications Deployment</b>											
CV deployment plans	Multiple Choice	13									
When deployment expected	Multiple Choice	21									
<b>Planned Connected Vehicle Applications</b>											
Reduced Speed/Work Zone Warning (RSWZ)	Boolean	30									
Curve Speed Warning (CWS)	Boolean	37									
Other speed management applications	Boolean	44									
Pedestrian and bicycle	Boolean	51									

Q55: Does your agency have plans to deploy connected vehicle applications?

Notes: Expanding the Index worksheet to reveals the sub-topic “Connected Vehicle Applications Deployment” and the question “Does your agency have plans to deploy connected vehicle applications?”

**Step 3: Identify the questions asked and the name of the variables in the associated data file by opening the Connected Vehicles topic worksheet.**

Question # (Where to find in survey)	Question Format	Values	Value Labels	Survey Variable1 Name	Data File Variable1 Name
55	Multiple Choice	0,1,2	0=No,1=Yes,2=No Response	ConvehPlansDeploy	16_FM_Q55_1HQ102
Question Wording		When do you expect to deploy?			

Notes: Data for this question are located in the 2016 Freeway Management data file and the variable name in the file is “16\_FM\_Q55\_1R01C01.”

**Step 4: The user may acquire the information s/he needs simply by viewing the data (e.g., the file shows that the New York State Department of Transportation in Albany, NY does not operate or plan to operate Connected Vehicle applications, but if additional analysis is required, the user can download the relevant data file containing the variable “16\_FM\_Q55\_1R01C01.”**

	A	B	C	JJ	JK
	MetroArea	AgencyName	AgencyNumber	16_FM_Q55_1R01C01	16_FM_Q55_2R01C01
1	Albany-Schenectady-Troy, NY	New York State Department of Transportation	13	0	4
2	Atlanta-Sandy Springs-Marietta, GA	Georgia Department of Transportation	69	1	2
3	Austin-Round Rock, TX	Texas Department of Transportation Austin District	95	2	4
4	Bakersfield, CA	Caltrans District 6	103	1	3
5	Baltimore-Towson, MD	Maryland State Highway Administration	128	1	3
6	Buffalo-Niagara Falls, NY	New York State Department of Transportation	213	0	4
7	Charlotte-Gastonia-Concord, NC-SC	Metrolina Regional Transportation Management Center (North Carolina DOT)	252	0	4
8	Chicago-Naperville-Joliet, IL-IN-WI	Indiana Department of Transportation	302	0	4
9	Chicago-Naperville-Joliet, IL-IN-WI	ISTHA	305	1	3
10	Cincinnati-Middletown, OH-KY-IN	TRW/ARTIMIS OCC for Ohio Department of Transportation	370	1	1
11	Cleveland-Elyria-Mentor, OH	Ohio Department of Transportation District 12	415	1	1



# Appendix A. Freeway Management Surveys Returned by Agency

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
13	New York State Department of Transportation	1	1	1	1	.	.	.	1	1	1	.	7
15	New York State Thruway Authority	1	.	1	1	1	1	1	1	1	.	1	9
33	Pennsylvania Turnpike Commission	1	.	1	1	1	1	1	1	1	.	.	8
69	Georgia Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
95	Texas Department of Transportation Austin District	1	1	1	1	1	1	1	1	1	1	1	11
103	Caltrans District 6	1	1	1	1	1	1	1	1	1	1	.	10
128	Maryland State Highway Administration	1	1	1	1	1	1	1	1	1	1	.	10
143	Louisiana Department of Transportation	1	1	1	1	1	1	1	1	.	.	.	8
149	Alabama Department of Transportation	.	1	1	1	1	1	1	1	.	.	1	8
189	Massachusetts Department of Transportation - Highway Division	.	1	1	1	1	1	.	1	.	.	1	7
213	New York State Department of Transportation	1	1	1	1	.	.	.	1	1	1	.	7
215	New York State Thruway Authority	1	1	1	1	1	1	1	1	1	.	.	9
241	South Carolina Department of Transportation	1	1	1	.	.	1	1	.	.	.	1	6
252	Metrolina Regional Transportation Management Center (North Carolina DOT)	1	1	1	1	1	1	1	.	1	1	.	9
255	South Carolina Department of	1	1	1	.	.	1	1	.	.	.	1	6

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
	Transportation District Office												
297	Illinois Department of Transportation, Region One	1	1	1	.	.	1	1	1	.	.	1	7
301	Indiana Department of Transportation Highway Operations	1	1	1	1	1	.	.	.	.	.	.	5
302	INDOT Traffic Management	1	1	1	1	1	1	1	1	1	1	1	11
305	ISTHA	1	1	1	1	1	1	1	1	1	1	.	10
370	TRW/ARTIMIS OCC for Ohio Department of Transportation	1	1	1	1	1	1	1	.	1	1	.	9
415	Ohio Department of Transportation District 12	1	1	1	1	1	1	1	1	1	1	.	10
417	Ohio Turnpike Commission	1	1	1	1	1	1	1	1	.	1	1	10
421	Columbus City	1	1	.	.	.	.	.	.	.	.	.	2
444	Ohio Department of Transportation	.	.	1	1	1	.	.	1	1	1	.	6
499	Texas DOT - Dallas District	1	1	1	1	1	1	1	1	1	.	1	10
502	Texas Department of Transportation Fort Worth District (TransVISION)	1	1	1	1	1	1	.	.	.	1	.	7
525	Ohio Department of Transportation District 7	.	.	1	1	.	.	.	1	1	1	.	5
541	Colorado Department of Transportation	1	.	1	1	1	1	1	.	1	1	1	9
619	Michigan Department of Transportation	1	1	1	1	1	1	1	1	1	.	.	9
643	Texas Department of Transportation-El Paso District	1	1	1	1	1	1	1	1	1	1	.	10
645	Caltrans District 6	1	1	1	1	1	1	1	1	1	1	1	11
665	Michigan Department of Transportation	.	1	1	1	1	1	1	1	1	1	.	9
688	North Carolina Department of Transportation-Greensboro	1	1	1	1	1	1	1	1	1	1	.	10

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
718	South Carolina Department of Transportation	1	1	1	.	.	1	1	.	.	.	1	6
749	Pennsylvania Department of Transportation	1	1	1	.	1	1	1	1	1	1	.	9
750	Pennsylvania Turnpike Commission	1	1	1	1	1	1	1	1	1	.	.	9
763	Connecticut Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
776	Hawaii Department of Transportation	.	.	1	1	1	1	1	.	1	.	.	6
811	Texas Department of Transportation-Houston District	1	1	1	1	1	1	1	.	.	.	1	8
825	Indiana Department of Transportation	1	1	1	1	1	1	1	.	1	1	.	9
840	Florida Department of Transportation	1	1	1	1	1	1	1	1	1	.	1	10
861	Kansas Department of Transportation	1	1	1	1	1	1	.	.	.	1	.	7
868	Missouri Department of Transportation	1	1	1	1	1	1	1	.	1	1	1	10
885	Tennessee Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
899	Nevada Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
901	Arkansas Highway and Transportation Department	1	1	1	1	1	1	1	1	1	1	1	11
924	Caltrans District 12	1	1	.	1	1	1	1	1	.	1	.	8
925	Caltrans District 7 - Los Angeles Transportation Management Center	.	1	1	1	1	1	1	.	1	1	1	9
926	Caltrans District 8	1	1	1	1	1	1	1	1	1	1	1	11
950	Los Angeles County	.	.	.	.	.	.	1	1	1	.	.	3
985	Kentucky Transportation Cabinet, District 5	.	1	1	1	1	1	1	1	.	1	1	9
997	Tennessee Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
1037	Florida Department of Transportation-District 4	1	1	1	.	.	.	.	.	.	.	.	3

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1038	Florida Department of Transportation Turnpike District	1	1	1	1	1	1	.	.	1	1	1	9
1081	Wisconsin Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
1111	Minnesota Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
1120	Tennessee Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
1124	Connecticut Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
1142	Louisiana Department of Transportation - Crescent City Connection Division	1	1	1	1	1	1	1	1	.	.	.	8
1145	Greater New Orleans Expressway Commission	1	.	1	1	1	1	1	1	1	1	1	10
1191	Connecticut Department of Transportation(CT)	1	1	1	1	1	1	1	1	1	1	.	10
1229	New Jersey Department of Transportation(NJ) Traffic Operations North	1	1	1	.	1	1	.	1	.	.	.	6
1230	New Jersey Turnpike Authority (Parkway)	1	1	1	.	1	.	1	1	.	.	.	6
1234	New Jersey Turnpike Authority(NJ) (Traffic Operations Center)	1	.	1	.	1	1	1	1	1	1	1	9
1247	New York State DOT - Hudson Valley - Region 8	1	1	1	1	.	.	.	.	.	1	1	6
1249	New York State DOT- Hudson Valley Region 8	1	.	1	1	1	1	1	1	1	.	.	8
1251	Palisades Interstate Park Commission	1	1	1	1	1	1	1	1	1	1	1	11
1253	Port Authority of NY & NJ	.	1	1	1	1	1	1	1	.	1	1	9
1280	TRANSCOM	1	1	1	1	1	1	1	1	1	1	1	11
1309	Oklahoma DOT	1	1	1	1	1	1	1	1	1	1	1	11
1331	Florida Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
1363	Delaware Department of Transportation	.	.	.	.	.	1	1	.	.	1	.	3

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1373	New Jersey DOT- Traffic Operations Center South	1	1	1	1	1	1	1	1	.	.	.	8
1374	New Jersey Turnpike - Traffic Operations Center	1	1	1	1	1	.	1	1	1	1	1	10
1375	Pennsylvania DOT - District 6	1	1	1	1	1	1	1	1	1	1	1	11
1378	Pennsylvania Turnpike Commission	1	1	1	1	1	1	1	1	1	1	.	10
1384	South Jersey Transportation Authority/Atlantic City Expressway	1	1	1	1	1	1	1	1	1	1	1	11
1387	Arizona DOT Statewide TOC	1	1	1	1	1	1	.	1	1	.	.	8
1430	Pennsylvania DOT- Dist. 11 - Western Regional Traffic Management Center (Pittsburgh)	1	1	1	1	1	1	1	1	1	.	.	9
1458	Oregon Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
1484	Rhode Island Department of Transportation	1	1	1	1	1	1	.	1	.	.	1	8
1501	North Carolina Department of Transportation	1	1	1	1	.	.	1	1	1	.	.	7
1521	Virginia DOT - Richmond Smart Traffic Center	1	1	1	1	1	1	1	1	1	.	.	9
1534	New York State DOT - Rochester - Region 4	1	1	1	1	.	.	.	1	.	.	1	6
1536	New York State Thruway Authority	1	.	.	.	.	.	.	.	.	.	.	1
1542	Caltrans District 3	1	1	1	.	.	.	.	1	.	.	.	4
1584	Utah Department of Transportation-Region 2	1	1	1	1	1	1	1	1	1	1	.	10
1596	Texas DOT - TransGuide Operations Center	1	.	1	1	1	1	1	1	.	1	1	9
1599	Caltrans - San Diego District 11 Transportation Management Center	1	1	1	1	1	1	1	1	1	1	1	11
1626	Caltrans District 4 Transportation Management Center	1	1	1	1	1	.	1	1	1	1	1	10

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1655	Puerto Rico Highway and Transportation Authority	.	.	1	1	.	.	.	.	.	.	.	2
1672	Sarasota/Manatee Metro Planning Organization	1	1	1	1	1	1	1	1	.	.	.	8
1682	Pennsylvania Department of Transportation	1	1	1	1	1	1	1	1	1	.	.	9
1684	Pennsylvania Turnpike Commission	1	.	1	1	1	1	1	1	1	.	.	8
1718	Washington State Department of Transportation Northwest Region	1	1	1	1	1	1	1	1	1	1	.	10
1719	Washington State DOT - Olympic Region Traffic Management Center	.	.	1	1	1	1	1	1	1	1	.	8
1731	Massachusetts Highway	.	1	1	1	1	1	.	1	.	.	.	6
1749	Illinois Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
1752	MoDOT Highway Safety & Traffic Division	1	1	1	1	1	1	1	1	1	1	1	11
1761	New York State DOT - Syracuse - Region 3	1	1	1	1	.	.	.	1	1	1	1	8
1763	New York State Thruway Authority	1	1	1	1	1	1	1	1	1	.	.	9
1788	Florida DOT - Tampa Bay District 7	1	1	1	1	1	1	1	1	1	1	1	11
1809	Ohio Department of Transportation District 2	1	1	1	1	1	1	1	1	1	1	.	10
1810	Ohio Turnpike Commission	.	1	1	1	1	1	1	.	1	1	1	9
1815	Arizona DOT	1	1	1	1	1	1	.	1	1	.	.	8
1853	District of Columbia Transportation Management Center	1	1	1	.	1	1	1	1	1	1	1	10
1861	Maryland State Highway Administration	1	1	1	1	1	1	1	1	1	1	.	10
1869	Virginia DOT - NOVA Smart Traffic Center	1	1	1	1	1	1	.	1	1	1	.	9
1884	Florida Department of Transportation-District 4	1	1	1	1	1	1	1	.	1	.	1	9
1891	Kansas Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1910	Ohio Department of Transportation-District 4	1	1	1	1	1	1	1	1	1	1	.	10
2023	Ohio Department of Transportation District 4	.	1	1	1	1	1	1	1	1	1	.	9
2026	Utah Department of Transportation-Region 1	1	1	1	1	1	1	1	1	1	1	.	10
2192	New Mexico DOT - District 3	.	.	1	1	1	1	1	1	1	1	1	9
2372	Nebraska Department of Roads - District 2	1	1	1	1	1	1	1	1	1	1	.	10
2390	Oklahoma Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
2429	Pennsylvania Turnpike Commission	1	1	1	1	1	1	1	1	1	.	.	9
2430	Pennsylvania Department of Transportation-Allentown	1	1	1	1	1	1	1	1	1	1	1	11
2431	North Carolina Department of Transportation-Winston-Salem	1	1	1	1	1	1	1	1	1	1	.	10
2434	Virginia Department of Transportation	1	1	1	1	1	1	1	1	1	.	1	10
2435	Florida DOT -District 6 - SunGuide Transportation Management Center	1	1	1	1	1	1	1	1	1	1	1	11
2444	New York State DOT-Long Island Region 10	1	1	1	1	.	.	.	1	.	1	.	6
2459	New York State DOT-Region 11	.	.	1	1	.	.	.	1	1	.	.	4
2467	Washington State Department of Transportation	.	.	1	1	.	1	1	1	1	1	1	8
2469	Alabama Department of Transportation Sixth Division	.	.	.	1	.	1	1	1	1	1	.	6
2493	Iowa DOT	.	.	1	1	.	1	1	1	.	1	1	7
2502	Mississippi Department of Transportation	.	.	1	.	.	.	1	.	.	.	1	3
2508	Oregon DOT	.	.	1	1	.	1	.	.	1	1	1	6
2521	South Carolina DOT	.	.	1	1	.	1	1	.	.	.	1	5

Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2525	Texas Department of Transportation	.	.	1	1	.	1	1	1	.	.	.	5
2529	Utah Department of Transportation Region 3	.	.	1	1	.	1	1	1	1	1	.	7
2537	Washington State Department of Transportation Eastern Region	.	.	1	1	.	1	1	1	1	1	1	8
2543	Wisconsin Department of Transportation District 1	.	.	1	1	.	1	1	1	1	.	1	7
2608	Connecticut DOT	.	.	1	1	.	1	1	1	1	1	.	7
2616	Florida DOT	.	.	1	1	.	1	1	1	1	1	.	7
2623	Florida DOT	.	.	1	1	.	1	1	1	1	.	.	6
2640	North Carolina DOT	.	.	1	.	.	1	1	1	1	.	.	5
2651	Montana Department of Transportation	.	.	1	.	.	.	.	.	.	.	.	1
2684	Ada County Highway District	.	.	1	1	.	1	1	1	1	1	1	8
2694	Indiana DOT	.	.	1	1	.	1	1	1	1	1	.	7
2704	Pennsylvania DOT	.	.	1	.	.	1	1	1	1	1	.	6
2708	North Carolina DOT	.	.	1	1	.	1	1	1	1	1	.	7
2713	Tennessee DOT	.	.	1	1	.	1	1	1	1	1	1	8
2715	MoDOT Highway Safety & Traffic Division	.	.	1	1	.	1	1	1	1	1	1	8
2731	Virginia DOT	.	.	1	1	.	.	.	1	.	1	.	4
2737	Texas DOT	.	.	1	1	.	1	.	1	1	1	1	7
2763	Alabama DOT	.	.	1	1	.	1	1	1	1	.	.	6
2770	Caltrans - Santa Barbara	.	.	1	1	.	1	1	.	.	.	.	4
2779	Caltrans - Stockton	.	.	1	1	.	1	1	1	.	.	1	6
2791	Caltrans - Salinas	.	.	1	1	.	1	1	.	.	.	.	4



Agency Number	Agency Name	Survey Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2807	Caltrans - Modesto	.	.	1	1	.	1	1	.	.	.	.	4
2813	Caltrans- District 10	.	.	1	1	.	1	1	1	.	.	1	6
6196	TxDOT Traffic Safety Division	.	.	.	.	.	.	.	.	.	.	1	1
	Total	105	105	146	133	103	129	123	122	109	95	66	1236

## Appendix B. Arterial Management Surveys Returned by Agency

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2	Albany City Traffic Engineering	1	1	1	1	1	1	1	.	1	1	1	10
13	New York State Department of Transportation	1	1	1	1	.	.	.	.	.	.	.	4
19	Saratoga County	1	1	1	1	1	1	1	.	1	1	1	10
21	Schenectady City	1	1	1	1	1	.	1	.	.	.	.	6
24	Troy City	.	.	.	.	.	.	.	.	1	.	1	2
25	Bernalillo County	1	1	1	1	1	1	1	.	1	1	1	10
26	Allentown City Traffic Signal Maintenance	1	1	1	1	1	1	.	.	.	.	1	7
27	Bethlehem City	1	1	1	1	1	1	1	.	.	.	.	7
37	Atlanta City	1	.	1	1	.	1	1	1	.	1	1	8
47	Cherokee County	1	1	1	1	1	1	1	1	.	.	.	8
48	Clayton County Department of Transportation & Development	1	1	1	1	1	1	1	1	.	.	1	9
49	Cobb County Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
50	DeKalb County	.	.	1	1	1	1	1	1	.	.	1	7
54	Gwinnett County	1	1	1	1	1	1	1	1	1	1	1	11
55	Henry County	1	1	1	1	1	1	.	1	1	1	1	10
56	Rockdale County	.	1	1	1	1	1	1	1	.	.	.	7
68	Fulton County	1	1	.	1	1	.	.	1	.	1	1	7
69	Georgia Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
85	Austin City	1	1	1	1	1	1	1	1	.	.	.	8
103	Caltrans District 6	1	1	1	1	1	1	1	.	1	1	.	9
104	Bakersfield City	1	.	1	1	.	1	.	.	.	1	1	6
110	Anne Arundel County	1	1	1	1	1	1	1	1	1	1	.	10

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
113	Baltimore County	1	1	1	1	1	1	1	1	.	.	.	8
115	Baltimore City	.	1	.	.	.	1	1	1	1	1	.	6
126	Howard County	1	1	1	1	1	1	1	1	1	.	1	10
128	Maryland State Highway Administration	.	.	1	1	1	1	1	1	.	.	.	6
135	Baton Rouge/East Baton Rouge Parish	1	1	1	1	1	1	1	.	1	1	1	10
144	Louisiana Department of Transportation Division District 61	1	1	1	1	1	1	1	.	1	.	.	8
145	Louisiana Department of Transportation Division District 62	1	1	1	1	1	1	1	.	1	1	.	9
154	Birmingham City	1	1	1	1	1	1	1	1	1	1	1	11
158	Jefferson County	.	1	1	.	1	1	.	.	1	.	.	5
159	Shelby County	.	1	1	1	1	1	1	1	1	1	1	10
162	Boston City	1	1	1	1	1	1	1	1	1	1	1	11
166	Cambridge City	1	.	1	1	1	1	1	1	1	1	1	10
167	Lawrence City	.	1	1	1	.	.	.	.	.	1	.	4
170	Lynn City	1	.	1	1	1	1	.	.	1	.	1	7
171	Malden City	.	1	.	1	1	.	.	.	.	.	.	3
176	City of Newton	1	1	.	1	1	1	1	1	1	.	1	9
178	Quincy City	.	1	.	.	.	1	.	1	.	1	1	5
181	Somerville City	1	1	1	1	1	1	1	1	.	.	.	8
183	Waltham City	.	1	1	1	1	.	.	.	.	.	.	4
189	Massachusetts Highway Department	1	1	1	1	1	1	.	1	1	.	.	8
199	Brookline Town	1	1	1	.	.	.	.	.	.	.	.	3
200	Framingham Town	.	.	.	.	.	1	.	.	.	.	1	2
203	Weymouth Police Traffic Division	.	.	1	1	1	1	1	1	1	1	1	9
207	Buffalo City	1	.	.	.	.	.	.	.	.	1	.	2
213	New York State Department of Transportation	1	1	1	1	.	.	.	1	1	1	.	7
218	Niagara Falls City	1	1	1	1	1	1	1	1	1	1	1	11
225	Amherst Town	1	1	1	1	1	1	1	1	.	.	.	8
226	Cheektowaga Town	1	1	1	1	1	1	1	1	1	1	1	11

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
227	Tonawanda Town	1	1	1	1	.	1	1	.	.	.	.	6
232	Charleston City	.	.	1	1	1	1	1	.	1	1	.	7
236	North Charleston City	.	.	1	1	.	.	.	.	.	.	.	2
241	South Carolina Department of Transportation	.	1	1	1	1	1	1	.	.	.	1	7
243	Charlotte Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
252	Metrolina Regional Transportation Management Center (North Carolina DOT)	1	1	.	1	1	.	.	.	.	.	.	4
255	South Carolina Department of Transportation District Office	1	1	.	.	.	1	.	.	.	.	.	3
258	Aurora City	1	1	1	1	1	1	1	1	.	.	.	8
259	Chicago City	1	1	1	1	.	.	1	1	.	1	1	8
261	Elgin City	.	1	1	1	1	1	1	.	.	.	.	6
262	Evanston City	1	1	1	1	1	.	1	1	1	1	.	9
263	Gary City	1	1	1	1	1	1	1	.	.	.	.	7
266	Hammond City	1	1	1	1	1	1	1	.	.	.	1	8
269	City of Joliet, Department of Public Works	1	1	1	1	1	1	1	1	1	1	1	11
270	Naperville City	.	.	1	1	.	1	1	1	1	1	.	7
272	Waukegan City	1	1	1	1	1	1	1	.	.	.	1	8
273	Wheaton City	1	1	1	1	1	1	1	.	.	.	.	7
276	Cook County	1	1	1	1	1	1	1	1	.	.	1	9
277	DuPage County	1	1	1	1	1	1	1	1	1	1	1	11
279	Kane County	1	1	1	1	1	1	1	1	1	1	1	11
281	Lake County -Illinois	1	1	1	1	1	1	1	1	.	1	1	10
285	McHenry County	1	1	1	1	1	1	1	1	1	1	1	11
286	Porter County	1	1	1	1	1	1	1	1	.	.	.	8
288	Will County	1	1	1	1	1	1	1	1	1	1	1	11
297	Illinois Department of Transportation	.	.	1	1	1	1	1	1	.	.	1	7

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
302	Indiana Department of Transportation La Porte District	.	.	1	1	1	1	1	.	.	.	.	5
333	Arlington Heights Village	1	1	1	.	.	.	.	.	.	.	.	3
336	Mount Prospect	1	1	1	1	1	1	1	1	1	1	1	11
338	Oak Lawn Village	1	.	1	1	1	1	.	.	.	.	.	5
339	Oak Park Village	1	1	1	1	1	1	1	1	1	1	1	11
340	Schaumburg Village	1	1	1	1	1	1	1	1	.	.	1	9
341	Skokie Village	1	.	.	.	.	1	1	1	1	1	1	7
352	Cincinnati City	1	.	.	1	1	.	.	1	.	1	1	6
354	Hamilton City	1	1	1	1	1	1	1	1	1	1	.	10
356	Butler County	.	1	1	1	1	1	1	1	1	.	1	9
357	Clermont County	1	1	1	1	1	1	1	1	1	1	1	11
358	Hamilton County	1	1	1	1	1	1	1	1	1	1	1	11
359	Warren County	.	.	1	1	1	1	1	1	.	1	1	8
365	Kentucky Transportation Cabinet	1	1	1	1	1	1	1	1	1	.	.	9
366	Ohio Department of Transportation	1	1	1	1	1	1	1	.	1	1	.	9
374	Akron City	1	1	1	1	1	1	1	.	.	1	.	8
378	Cleveland City	.	.	.	1	.	.	.	.	.	.	.	1
380	Cleveland Heights City	1	1	1	1	1	1	1	1	.	.	1	9
385	Elyria City	1	1	1	1	1	1	1	1	1	.	1	10
388	Euclid City	.	1	1	1	.	1	1	1	1	1	.	8
392	Lakewood City	1	1	1	1	1	1	1	.	1	1	1	10
394	Lorain City	.	1	1	1	1	1	1	1	1	.	1	9
398	Parma City	.	1	1	1	1	1	.	.	.	.	.	5
401	Cuyahoga County	1	1	1	1	1	1	1	1	1	1	.	10
402	Geauga County	.	.	1	1	1	1	1	1	1	1	1	9
403	Lake County	1	1	1	1	1	1	1	1	1	1	1	11
404	Lorain County	1	1	1	1	1	1	1	1	.	.	.	8
405	Medina County	.	1	1	1	.	1	.	.	.	.	.	4
406	Portage County	.	1	1	1	1	1	1	.	.	.	.	6
415	Ohio Department of Transportation District 12	1	1	1	1	1	1	1	1	1	1	.	10

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
416	Ohio Department of Transportation District 3	1	1	1	1	1	1	1	1	1	1	.	10
419	Summit County	1	1	1	1	1	1	1	.	.	.	.	7
421	Columbus City	1	1	1	1	1	.	.	.	1	.	1	7
436	Franklin County	1	1	1	1	1	1	1	1	1	1	1	11
444	Ohio Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
447	Arlington City	1	1	1	1	.	1	1	1	.	1	1	9
450	Carrollton City	1	1	.	1	1	.	1	1	.	.	.	6
453	Dallas City	1	1	1	1	1	1	1	1	.	.	1	9
457	Fort Worth City	1	.	1	1	1	1	1	1	.	1	.	8
460	Garland City	1	1	1	1	1	1	1	1	1	1	1	11
463	Grand Prairie City	1	1	1	1	1	1	1	.	.	.	.	7
466	Irving City	1	1	1	1	1	1	1	1	1	1	.	10
469	Mesquite City	.	.	.	1	1	.	1	1	1	1	1	7
473	Plano City	.	.	1	1	1	1	1	1	1	1	1	9
476	Richardson City	1	1	1	1	1	1	1	1	1	1	.	10
499	Texas DOT - Dallas District	.	1	1	1	1	1	1	1	1	.	1	9
502	Texas Department of Transportation Fort Worth District	1	1	1	1	1	1	1	.	.	.	.	7
505	Dayton City	.	1	1	1	1	1	1	.	1	.	1	8
506	Kettering City	1	1	1	1	1	1	1	.	.	.	1	8
508	Springfield City	1	1	1	1	1	1	1	.	.	.	1	8
512	Clark County	1	1	1	1	1	1	1	.	.	.	.	7
513	Greene County	1	1	1	1	1	1	1	.	1	1	.	9
514	Miami County	.	1	1	1	1	1	1	.	1	1	1	9
515	Montgomery County	1	1	1	1	1	1	1	.	.	.	.	7
525	Ohio Department of Transportation District 7	.	.	1	1	.	.	.	.	1	1	.	4
532	Arvada City	1	1	1	1	1	1	1	1	1	1	1	11
533	Aurora City	1	.	1	1	.	1	1	1	1	1	1	9
534	Boulder City	1	1	1	1	1	1	1	1	1	.	1	10
535	Denver City	1	1	1	1	1	1	1	1	1	1	1	11
537	Lakewood City	1	1	1	1	1	1	1	1	.	1	1	10
538	Longmont City	.	.	1	1	1	1	1	1	1	1	.	8

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
539	Thornton City	1	1	1	1	1	1	1	1	1	.	.	9
540	Westminster City	1	1	1	1	1	1	1	1	1	1	.	10
541	Colorado Department of Transportation	1	1	1	1	1	1	1	.	.	.	1	8
542	Arapahoe County	1	1	1	1	1	1	1	1	1	1	.	10
543	Adams County	1	1	1	1	1	1	.	1	1	1	1	10
544	Boulder County	1	1	1	1	1	1	1	1	.	1	1	10
546	Douglas County	1	1	1	1	1	1	1	1	.	1	1	10
547	Jefferson County	1	1	1	1	1	1	1	1	1	1	1	11
556	Ann Arbor City	1	1	1	1	1	1	1	1	1	1	1	11
561	Dearborn City	1	1	1	1	1	1	.	1	.	.	.	7
566	Detroit City Public Works	.	.	.	1	1	1	1	1	1	.	1	7
575	Pontiac City	.	1	1	1	1	1	1	1	.	.	.	7
584	Royal Oak City	.	1	1	1	1	1	1	1	1	1	1	10
606	Livingston County	1	1	1	1	1	1	1	1	1	1	1	11
607	Monroe County	1	1	1	1	1	1	1	1	1	1	1	11
609	St. Clair County	1	1	1	1	1	1	1	1	1	1	1	11
617	Macomb County	1	1	1	1	1	1	1	1	1	1	1	11
623	Oakland County Road Commission (RCOC)	1	1	1	1	1	1	1	1	1	1	1	11
630	Washtenaw County	1	1	1	1	1	1	.	1	1	1	1	10
633	Wayne County	1	1	1	1	1	1	1	.	.	.	.	7
636	El Paso City	1	1	1	1	1	1	1	.	1	1	1	10
643	Texas Department of Transportation-El Paso District	.	.	1	1	1	1	1	.	1	1	.	7
645	Caltrans District 6	1	1	1	1	1	1	1	.	1	1	.	9
647	Fresno City	.	.	1	1	.	1	1	.	1	1	1	7
653	Grand Rapids City including Kent County	1	1	1	1	1	1	1	.	1	1	.	9
655	Wyoming City	.	1	1	1	1	1	1	.	1	1	.	8
667	Ottawa County	1	1	1	1	1	1	1	.	1	1	1	10
669	Greensboro City	1	1	1	1	1	1	1	.	1	1	1	10
672	High Point City	1	1	1	1	1	1	1	.	1	1	1	10
675	Winston-Salem City	1	1	1	1	1	.	.	.	1	1	.	7
689	Davidson County	1	1	1	1	1	1	1	.	1	1	.	9

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
690	Guilford County	1	1	1	1	1	1	1	.	1	1	.	9
691	North Carolina DOT for Randolph County	1	1	1	1	1	1	1	.	.	1	1	9
692	Forsyth County	1	1	1	1	1	1	1	.	1	1	.	9
696	City of Greenville	1	1	1	1	1	1	1	.	1	1	1	10
699	Spartanburg City	1	1	1	1	1	.	1	.	.	.	1	7
718	South Carolina Department of Transportation	1	1	1	.	1	.	.	.	.	.	.	4
727	Chesapeake City	1	1	1	1	1	1	1	1	1	.	.	9
728	Hampton City	1	1	1	1	1	1	1	1	1	1	.	10
729	Newport News City	1	1	1	1	1	1	1	.	1	.	1	9
732	Norfolk City	1	1	1	1	1	1	1	1	.	.	1	9
733	Portsmouth City	1	1	1	1	1	1	1	1	1	.	.	9
734	Suffolk City	1	1	1	1	1	1	1	1	1	1	.	10
735	Virginia Beach City	1	1	1	1	1	1	1	1	1	1	1	11
743	Harrisburg City	1	1	1	1	1	.	.	.	.	.	.	5
756	Hartford City	1	1	1	1	1	1	.	.	.	.	.	6
760	New Britain City	.	.	1	.	.	1	1	.	.	.	.	3
763	Connecticut Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
767	East Hartford Town	1	1	1	1	1	1	1	.	.	.	1	8
768	Manchester Town	.	.	1	1	1	1	1	1	1	1	1	9
770	Town of West Hartford	1	1	1	1	1	1	1	1	1	1	1	11
773	Honolulu City and County	1	1	1	1	1	1	1	.	.	.	.	7
782	Baytown City	.	.	1	1	1	1	.	.	.	.	.	4
783	Galveston City	.	.	1	1	1	1	1	1	1	.	.	7
784	Houston City	1	.	1	1	1	1	1	.	.	.	.	6
785	Pasadena City	1	1	1	1	1	.	.	1	1	1	.	8
789	Fort Bend County	1	1	1	1	1	1	1	1	1	.	1	10
794	Montgomery County	1	1	1	1	1	1	1	1	1	1	1	11
799	Harris County	.	.	.	1	.	.	.	1	.	.	1	3
811	Texas Department of Transportation	1	1	.	1	1	1	1	1	1	1	1	10
815	Indianapolis City and Marion County	1	1	1	1	1	1	1	.	1	.	.	8
818	Boone County	1	1	1	1	1	1	1	1	.	.	1	9



Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
821	Hancock County	1	1	1	1	1	1	1	1	1	.	.	9
822	Hendricks County	1	1	1	1	1	1	1	1	.	.	.	8
837	Clay County	1	1	1	1	1	1	1	1	.	.	.	8
838	Duval County	1	1	1	1	1	1	1	1	1	1	1	11
839	St. Johns County	1	1	1	1	1	1	1	.	1	1	1	10
840	Florida Department of Transportation	1	1	1	1	1	1	1	.	.	.	.	7
847	Independence City	1	1	.	1	1	.	.	.	.	.	.	4
848	Kansas City - Missouri DPW	1	1	1	1	1	.	.	1	.	1	1	8
849	Olathe City	1	1	1	1	1	1	1	1	1	1	1	11
850	Overland Park City	1	1	1	1	1	1	1	1	1	1	1	11
851	Clay County	1	.	.	.	.	.	.	.	.	.	.	1
868	Missouri Department of Transportation	1	1	1	1	1	1	1	.	.	1	1	9
875	Knoxville City	1	1	1	1	1	1	1	.	1	1	1	10
878	Blount County	.	.	1	1	1	1	1	.	1	.	1	7
880	Knox County	1	1	1	1	1	1	1	.	1	1	1	10
897	Las Vegas Computer Traffic System	1	1	1	1	1	1	1	1	1	1	1	11
899	Nevada Department of Transportation	1	.	.	.	.	.	.	.	.	.	.	1
906	Little Rock City	1	1	1	1	1	1	1	.	1	1	1	10
909	North Little Rock	1	1	1	1	1	1	1	.	.	.	.	7
924	Caltrans District 12	1	1	.	1	1	1	1	1	.	.	.	7
925	Caltrans District 7 - Los Angeles Transportation Management Center	.	.	.	1	1	1	.	1	1	1	.	6
926	Caltrans District 8	1	1	1	1	1	1	1	1	1	1	.	10
927	Anaheim City	1	1	1	1	1	1	1	1	1	.	.	9
930	City of Costa Mesa	1	1	1	1	1	1	1	1	1	.	1	10
931	City of Garden Grove	1	1	1	1	1	1	1	1	1	1	1	11
933	Glendale City	1	1	1	1	1	1	1	1	1	.	1	10
934	Huntington Beach City	1	1	1	1	1	.	.	.	.	.	.	5
935	Inglewood City	1	.	1	1	1	1	.	1	.	.	.	6
937	Long Beach City	1	1	1	1	1	1	1	1	.	1	1	10
938	Los Angeles City	1	1	1	1	1	1	.	1	1	1	1	10
939	Pasadena City	1	1	1	1	1	1	1	.	.	1	1	9

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
940	Pomona City	1	1	1	1	1	1	1	1	1	.	1	10
941	City of Riverside	1	.	1	1	1	1	1	1	1	1	1	10
942	San Bernardino City	1	1	1	1	1	1	1	.	.	.	.	7
943	Santa Ana City	1	1	1	1	1	1	1	1	1	1	1	11
950	Los Angeles County	.	.	.	1	1	1	1	1	1	1	1	8
969	Louisville City	1	1	1	1	1	1	1	1	.	.	1	9
973	Clark County	1	1	1	1	1	1	1	1	.	.	.	8
975	Floyd County	1	1	1	1	1	1	1	1	.	.	.	8
977	Jefferson County	1	1	1	.	.	.	.	.	.	.	.	3
988	Memphis City	.	.	1	1	1	1	1	.	.	1	1	7
991	Shelby County	1	1	1	1	1	1	1	.	.	.	.	7
1006	Broward County	1	1	.	1	1	1	1	.	1	.	.	7
1035	Dade County	1	1	1	1	1	1	1	1	.	.	.	8
1047	Kenosha City	.	1	1	1	1	1	1	1	.	1	1	9
1048	Milwaukee City	1	1	1	1	1	1	1	1	.	1	1	10
1051	Racine City	1	1	1	1	1	1	1	1	1	.	1	10
1054	Waukesha City	1	1	1	1	1	1	1	1	.	1	1	10
1056	West Allis City	.	.	1	1	1	1	1	1	.	.	1	7
1057	Kenosha County	1	1	1	1	1	1	1	1	1	.	1	10
1062	Milwaukee County	1	1	1	1	1	1	1	1	1	1	1	11
1066	Ozaukee County	1	1	1	1	1	1	1	1	1	1	1	11
1073	Waukesha County	1	1	1	1	1	.	.	1	1	1	1	9
1081	Wisconsin Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
1087	Bloomington City	1	1	1	1	1	1	.	1	.	.	1	8
1088	Brooklyn Park City	1	1	1	1	1	1	1	1	.	.	.	8
1089	Burnsville City	.	1	1	1	1	.	.	.	.	.	.	4
1093	Minneapolis City	1	1	1	1	1	1	1	1	1	1	.	10
1096	St. Paul City	1	1	1	1	1	1	1	1	1	1	.	10
1100	Anoka County	1	1	1	1	1	1	1	1	1	1	1	11
1101	Dakota County	1	1	1	1	1	1	1	1	1	1	1	11
1102	Hennepin County	1	1	1	1	1	1	1	1	.	1	.	9
1104	Ramsey County	1	1	1	1	.	1	1	1	1	.	1	9
1106	Scott County	1	1	1	1	1	1	1	1	.	.	1	9
1107	Washington County	1	1	1	1	1	1	1	1	1	1	1	11

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1111	Minnesota Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
1115	Davidson Metro	1	1	1	1	1	1	1	.	.	.	.	7
1116	Rutherford County	1	.	1	1	1	1	1	1	1	1	1	10
1122	Meriden City	1	1	1	1	.	1	1	.	.	.	1	7
1124	Connecticut Department of Transportation	1	1	1	1	1	1	1	.	1	1	.	9
1127	New Haven City	1	1	1	1	1	1	1	.	1	1	.	9
1134	Town of Hamden	.	.	1	.	.	.	.	.	1	.	.	2
1135	City of West Haven	1	1	1	1	1	1	1	.	.	.	1	8
1138	Kenner City	.	.	1	.	1	1	1	.	.	.	.	4
1140	New Orleans/Orleans Parish	.	.	1	1	1	.	.	.	.	.	.	3
1146	Jefferson Parish	1	1	1	1	1	.	.	.	.	.	1	6
1152	Louisiana Department of Transportation District 62	1	1	1	1	1	1	1	1	1	1	.	10
1153	Louisiana Department of Transportation District 02	1	1	1	1	1	1	1	.	.	.	1	8
1172	Bayonne City(NJ)	1	1	1	1	1	1	1	1	1	1	.	10
1173	Bridgeport City	1	1	1	1	1	1	1	.	.	.	1	8
1174	Clifton City(NJ)	1	1	1	1	1	1	1	.	.	.	.	7
1175	East Orange City(NJ)	1	1	1	1	1	1	1	1	.	.	.	8
1176	Elizabeth City(NJ)	1	1	1	1	1	1	1	1	1	.	.	9
1179	Mount Vernon City	1	.	1	.	.	1	1	1	.	.	.	5
1180	New Rochelle City	1	1	1	1	1	1	1	.	1	1	1	10
1181	Newark City	1	1	1	1	1	1	.	1	.	.	1	8
1182	Norwalk City(CT)	1	1	.	1	1	1	1	.	1	1	.	8
1183	Passaic City(NJ)	.	1	1	1	1	.	.	.	.	.	.	4
1184	Patterson City(NJ)	.	1	1	1	1	1	1	1	1	1	.	9
1185	Stamford City	1	1	1	1	1	1	1	.	1	1	1	10
1187	Union City - New Jersey	1	1	1	1	1	1	1	.	.	.	1	8
1188	Yonkers City Traffic Engineering Division	.	1	1	.	.	.	.	.	.	1	.	3

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1191	Connecticut Department of Transportation(CT)	1	1	1	1	1	1	1	.	1	1	.	9
1193	Bergen County Planning and Engineering	1	.	1	1	1	1	1	1	1	1	1	10
1194	Essex County DPW	.	1	1	1	1	1	1	1	.	.	1	8
1195	Hunterdon County	1	1	1	1	1	1	1	1	.	.	.	8
1196	Middlesex County	1	1	1	1	1	1	1	1	.	.	1	9
1197	Monmouth County Traffic Engineer	.	1	1	1	1	.	1	1	.	1	1	8
1199	Ocean County Engineering Department	1	1	1	1	1	1	1	1	1	1	1	11
1202	Somerset County	1	1	.	1	1	1	1	1	1	.	.	8
1203	Sussex County(NJ)	.	.	1	1	1	.	.	.	.	.	.	3
1205	Warren County	1	1	1	1	1	1	1	.	1	1	.	9
1212	Irvington Township(NJ)	.	1	1	1	1	1	.	1	1	1	.	8
1216	Jersey City Public Works Department	1	1	1	1	1	1	.	1	1	1	1	10
1228	Nassau County	1	1	1	1	1	1	1	1	.	.	1	9
1229	New Jersey Department of Transportation(NJ)	1	1	1	1	1	1	.	1	.	.	.	7
1230	New Jersey Highway Authority(NJ)	1	1	1	1	1	1	.	.	.	.	.	6
1238	New York City DOT	1	1	.	.	.	.	.	.	.	.	.	2
1239	New York City DOT for 5 boroughs (Queens, Brooklyn, Manhattan, Bronx, Staten Island)	1	1	1	1	1	1	1	1	1	.	.	9
1247	New York State DOT-Hudson Valley Region 8	1	1	1	1	.	.	.	.	.	.	.	4
1267	Babylon Town	1	1	1	1	1	1	1	1	1	1	1	11
1268	Brookhaven Town	.	.	.	1	1	1	1	.	.	.	.	4
1269	Clarkstown Town	.	.	1	1	1	1	1	1	.	.	1	7
1270	Fairfield Town(CT)	1	1	1	.	.	.	.	.	.	.	.	3
1271	Greenburgh Town	1	1	1	1	1	1	1	1	.	.	.	8
1272	Greenwich Town(CT)	1	1	1	1	1	1	1	.	.	1	1	9
1274	Huntington Town	.	1	1	.	.	.	.	.	1	1	1	5
1278	Ramapo Town(NJ)	1	1	1	1	1	.	1	.	.	.	.	6

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1279	Smithtown Town	1	1	1	1	1	1	1	1	1	.	.	9
1283	Union Township(NJ)	.	1	1	1	1	1	.	.	.	.	.	5
1285	Westchester County	1	1	1	1	1	1	1	1	1	1	1	11
1290	Edmond City	1	1	1	1	1	1	1	1	1	1	1	11
1299	Oklahoma City	.	.	1	1	1	1	1	1	1	1	1	9
1306	City of Norman	1	1	1	1	1	1	1	1	1	1	1	11
1311	City of Council Bluffs	1	1	1	1	1	1	1	.	1	1	1	10
1313	Omaha City	1	1	1	1	1	1	1	.	.	.	1	8
1318	Sarpy County	1	1	1	1	1	1	1	.	.	.	.	7
1321	Nebraska Department of Roads (NDOR)	.	.	1	1	1	1	1	.	1	.	.	6
1327	Orlando City	1	1	1	1	1	1	1	1	1	1	1	11
1328	Orange County	1	1	1	1	1	1	1	1	1	1	1	11
1329	Osceola County	.	.	1	1	1	1	1	1	.	1	1	8
1330	Seminole County	.	1	1	1	1	1	1	1	1	1	1	10
1344	Abington Township	1	1	1	1	1	1	1	1	1	.	1	10
1345	Bensalem Township	.	1	.	1	1	1	.	.	1	.	1	6
1346	Bristol Township	1	1	1	1	1	1	1	1	1	1	1	11
1348	Camden City	.	.	.	1	1	1	.	.	.	.	.	3
1349	Gloucester Township	.	.	1	1	1	1	1	.	.	.	1	6
1350	Trenton City	1	1	1	1	1	1	1	1	.	.	.	8
1351	Wilmington City	1	1	1	1	1	1	.	.	1	.	1	8
1353	Burlington County	.	.	1	1	1	1	1	1	1	.	1	8
1354	Camden County	1	1	1	1	1	1	1	.	1	1	1	10
1359	Mercer County	.	.	.	1	1	1	1	1	1	.	1	7
1363	Delaware Department of Transportation	1	1	.	.	.	1	1	.	.	1	1	6
1371	Lower Merion Township	.	.	1	1	1	1	.	1	.	.	.	5
1373	New Jersey DOT-Traffic Operations Center South	1	1	1	1	1	1	1	1	.	.	.	8
1381	Philadelphia Streets Department	1	1	1	1	1	1	1	1	1	1	1	11
1385	Upper Darby Township	.	1	1	1	1	1	1	.	.	1	1	8
1387	Arizona DOT	1	1	1	1	1	.	.	1	.	.	1	7
1390	Chandler City	1	1	1	1	1	1	1	1	1	1	1	11
1391	Glendale City	1	1	1	1	1	1	1	1	.	.	.	8

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1392	Mesa City	1	1	1	1	1	1	.	1	.	1	1	9
1393	Peoria City	1	.	1	1	1	1	1	1	1	1	1	10
1394	Phoenix City	1	1	1	1	1	.	.	1	1	.	.	7
1395	City of Scottsdale Public Works	1	.	1	1	1	1	1	1	.	.	1	8
1396	Tempe City	1	1	1	1	1	1	1	1	1	1	1	11
1403	Maricopa County	1	1	1	1	1	1	.	1	1	1	1	10
1420	Town of Gilbert	1	.	.	1	1	1	1	1	1	.	1	8
1427	Pittsburgh City	1	1	1	.	.	.	.	.	.	.	.	3
1430	Pennsylvania DOT-Dist. 11 - Western Regional Traffic Management Center (Pittsburgh)	1	1	1	1	1	1	1	1	1	.	.	9
1441	Westmoreland County	1	1	1	1	1	1	1	1	.	.	1	9
1443	Beaverton City	1	1	1	1	1	1	1	1	1	1	1	11
1445	Gresham City	1	1	.	.	.	.	.	.	.	.	.	2
1446	Portland City	1	1	1	1	1	1	1	1	.	.	.	8
1450	Clackamas County	1	1	1	1	1	1	1	1	1	1	1	11
1451	Clark County	1	1	1	1	1	1	1	1	.	.	1	9
1452	Washington County	.	.	.	.	.	1	1	1	1	1	1	6
1456	Multnomah County	1	1	1	1	1	1	.	1	.	.	.	7
1458	Oregon Department of Transportation	1	1	1	1	1	1	1	1	1	1	.	10
1464	Cranston City	.	.	1	1	1	1	1	1	.	.	.	6
1465	East Providence City	1	1	1	1	1	1	1	1	1	.	.	9
1466	Fall River City	.	1	1	1	1	1	1	1	.	.	1	8
1467	New Bedford City	1	1	1	1	1	1	1	1	.	1	.	9
1468	Pawtucket City	1	.	1	1	1	1	.	.	.	.	1	6
1469	Providence City	.	.	1	1	1	1	1	1	1	.	.	7
1484	Rhode Island Department of Transportation	.	1	1	1	1	1	.	1	.	1	.	7
1493	Durham City	1	1	1	1	1	1	1	.	1	.	.	8
1495	Raleigh City	.	1	1	1	1	1	1	1	1	1	.	9
1502	North Carolina Department of Transportation for Durham County	1	1	1	.	.	.	.	.	.	.	.	3

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1503	North Carolina Department of Transportation for Orange County	.	1	1	1	1	1	1	.	.	1	.	7
1510	Petersburg City	1	1	1	1	1	1	1	1	1	.	.	9
1511	Richmond City	.	.	.	.	.	.	1	1	1	.	1	4
1514	Henrico County	1	1	1	1	1	1	1	1	1	1	1	11
1521	Virginia DOT - Richmond Smart Traffic Center	1	1	1	1	1	1	1	1	1	.	.	9
1531	Monroe County	1	1	1	1	1	1	1	1	1	1	1	11
1542	Caltrans District 3	1	1	1	.	.	.	.	1	.	.	.	4
1547	Sacramento City	1	1	1	1	1	1	1	1	1	.	1	10
1560	Sacramento County	1	1	1	1	1	1	1	1	1	1	.	10
1568	Salt Lake City	1	1	1	.	.	1	.	1	1	.	1	7
1575	West Valley City	1	1	1	1	1	1	1	.	.	.	.	7
1584	Utah Department of Transportation-Region 2	1	1	1	1	1	1	1	1	1	1	.	10
1592	Weber County	1	1	1	1	1	.	1	.	.	.	1	7
1594	San Antonio City	.	.	1	1	1	1	.	1	.	1	1	7
1596	Texas DOT TransGuide	1	1	1	1	1	1	1	.	1	1	1	10
1599	Caltrans - San Diego District 11 Transportation Management Center	1	1	1	1	1	1	1	1	1	1	1	11
1602	Carlsbad City	1	1	1	1	1	1	1	.	1	1	1	10
1603	Chula Vista City	1	1	1	1	1	1	1	1	.	.	.	8
1604	El Cajon City	1	1	1	1	1	1	1	1	1	1	1	11
1606	Escondido City	1	1	1	1	1	1	1	1	1	1	1	11
1609	San Diego City	1	1	1	1	1	1	1	1	.	.	1	9
1612	San Diego County	1	1	1	1	1	1	1	1	1	.	1	10
1626	Caltrans District 4	1	1	1	1	1	.	1	1	.	.	1	8
1629	Fremont City	1	1	1	1	1	1	1	1	1	1	.	10
1634	Redwood City	1	1	1	1	1	.	1	1	.	.	1	8
1635	San Francisco City & County	1	1	1	1	1	1	.	1	1	1	1	10
1636	San Jose City	1	1	1	1	1	1	1	1	1	1	1	11
1648	Santa Clara County	1	1	1	1	1	1	1	1	.	.	1	9
1664	Manatee County	1	.	1	1	1	1	1	.	1	1	2	10

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1667	Sarasota County	1	1	1	1	1	1	1	.	.	1	.	8
1673	Scranton City	.	.	1	1	1	1	.	.	.	.	.	4
1689	Bellevue City	1	1	1	1	1	1	1	1	1	1	1	11
1691	Seattle City	1	1	1	1	1	1	1	1	.	1	1	10
1692	Tacoma City	1	1	1	1	1	1	1	1	1	.	1	10
1693	Pierce County	1	1	1	1	1	1	1	1	1	1	1	11
1694	Everett City	1	1	1	1	1	1	1	1	1	1	1	11
1698	Federal Way City	.	.	1	1	1	1	1	1	1	1	1	9
1702	King County	.	.	1	1	1	1	1	1	.	.	1	7
1703	Kitsap County	1	1	1	1	1	1	.	.	.	.	.	6
1714	Snohomish County	1	1	1	1	1	1	1	1	1	.	1	10
1717	Washington State Department of Transportation	1	.	1	1	1	.	1	1	1	1	.	8
1719	Washington State DOT - Olympic Region Traffic Management Center	1	1	1	1	1	1	1	1	1	1	.	10
1727	Chicopee City	1	1	1	1	1	1	.	.	.	.	1	7
1728	Springfield City	1	1	1	1	1	.	1	.	.	.	1	7
1740	St. Charles City	1	.	1	1	1	1	1	1	1	1	1	10
1741	St. Louis City	.	.	1	1	1	1	1	1	1	.	1	8
1742	Franklin County	1	1	1	1	1	1	1	1	1	.	1	10
1743	Jefferson County	1	1	1	1	1	1	1	1	.	.	1	9
1744	St Charles County	1	1	1	1	1	1	1	1	.	.	1	9
1745	St. Louis County	1	.	1	1	1	1	.	.	.	.	.	5
1750	Illinois Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
1752	Missouri Department of Transportation	1	.	1	1	1	1	1	.	1	1	.	8
1758	Syracuse City	1	1	1	1	1	1	1	.	.	.	.	7
1761	New York State Department of Transportation	1	1	1	1	.	.	.	.	.	.	.	4
1764	Onondaga County	.	.	1	1	1	.	1	.	.	1	1	6
1770	Clearwater City	1	1	1	1	1	1	1	1	.	.	1	9
1776	St. Petersburg City	1	1	1	1	1	1	1	1	1	1	1	11
1779	Tampa City	1	1	1	1	1	1	1	1	1	1	1	11
1782	Hillsborough County	1	1	1	1	1	1	1	.	.	1	1	9



Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1784	Pasco County	1	1	1	1	1	1	1	1	1	.	.	9
1786	Pinellas County	1	1	1	1	1	1	1	1	1	1	1	11
1788	Florida Department of Transportation	1	1	1	1	.	.	.	.	.	.	.	4
1800	Toledo City	1	1	1	1	1	1	1	.	.	.	.	7
1804	Lucas County	.	1	1	1	1	1	1	.	.	.	1	7
1807	Monroe County	.	.	1	.	.	.	.	.	.	.	.	1
1809	Ohio Department of Transportation District 2	1	1	1	1	1	1	1	.	1	1	.	9
1814	Wood County	1	1	1	1	1	.	.	.	1	.	.	6
1815	Arizona DOT	1	1	1	1	1	1	.	1	1	.	1	9
1816	Pima County	1	1	1	1	1	1	1	1	1	1	1	11
1818	Tucson City	1	1	1	1	1	1	1	1	1	1	1	11
1831	Broken-Arrow City	1	1	1	1	1	1	1	.	.	.	.	7
1832	Tulsa City	1	1	1	1	1	1	.	.	1	1	1	9
1836	Tulsa County	1	1	1	1	1	1	1	.	1	1	1	10
1846	Alexandria City	1	1	1	.	.	.	.	.	1	1	1	6
1847	Arlington County	1	1	1	1	1	1	1	1	1	.	1	10
1849	Montgomery County	1	1	1	1	1	1	1	1	1	1	1	11
1850	Prince Georges County	1	1	1	1	1	1	1	1	1	.	1	10
1853	District of Columbia	1	1	1	1	1	1	.	1	1	1	.	9
1861	Maryland State Highway Administration	.	.	1	1	1	1	1	1	.	.	.	6
1871	Virginia Department of Transportation	.	1	1	.	1	1	1	1	1	1	2	10
1875	Boca Raton City	1	1	1	1	1	1	1	.	1	1	1	10
1882	Palm Beach County	1	1	1	1	1	.	.	.	.	.	.	5
1889	Wichita City	1	1	1	1	1	.	.	.	.	.	.	5
1890	Sedgwick County	1	1	1	1	1	1	1	.	1	.	.	8
1891	Kansas Department of Transportation	1	1	.	.	.	.	.	.	.	.	.	2
1899	Warren City	.	1	1	1	1	1	1	.	.	.	1	7
1902	Youngstown City	.	.	1	1	1	.	.	.	.	.	1	4
1905	Mahoning County	1	1	1	1	1	1	1	.	.	.	1	8
1907	Trumbull County	.	.	1	1	1	.	.	.	.	.	.	3

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1910	Ohio Department of Transportation-District 4	1	1	1	1	1	1	1	.	1	1	.	9
2023	DriveOhio	1	1	1	1	1	1	1	.	1	1	1	10
2026	Utah Department of Transportation-Region 1	1	1	1	1	1	1	1	1	1	1	.	10
2191	City of Rio Rancho for Sandoval County	.	1	1	1	1	1	1	.	1	1	1	9
2193	Albuquerque City	.	1	1	1	1	1	1	.	1	.	.	7
2380	Lake County Highway Department-Indiana	.	1	1	1	1	1	1	1	1	1	.	9
2381	Kansas City - Kansas DPW	1	1	1	1	1	1	1	1	1	.	1	10
2384	Hudson County Engineer	1	1	1	1	1	1	1	1	1	.	1	10
2388	Oakland City	1	.	1	1	1	1	1	.	.	.	.	6
2389	Denton City	1	1	1	1	1	1	1	1	.	.	1	9
2444	New York State DOT - Long Island - Region 10	1	1	1	1	.	.	.	1	.	.	1	6
2448	Salt Lake County	1	1	1	.	.	1	.	1	1	1	.	7
2469	Alabama DOT- 6th Division	.	.	.	1	.	1	1	.	1	.	1	5
2470	City of Montgomery	.	.	1	1	.	1	1	.	1	1	1	7
2478	Salinas City Public Works	.	.	1	1	.	.	.	.	.	.	.	2
2487	City of Pensacola Public Works	.	.	1	1	.	.	.	.	1	1	1	5
2488	Escambia County Office of Transportation and Traffic Operations	.	.	1	1	.	1	1	.	1	1	1	7
2489	Santa Rosa County Public Works	.	.	1	1	.	1	1	.	.	1	1	6
2494	City of Des Moines Traffic and Transportation	.	.	.	.	.	1	1	.	1	1	1	5
2502	Mississippi Department of Transportation	.	.	1	.	.	.	1	.	.	.	.	2
2503	Jackson City Public Works	.	.	1	1	.	1	1	.	.	.	.	4
2508	Oregon DOT - Region 2	.	.	1	1	.	1	.	.	1	1	1	6

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Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2511	Springfield City Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2512	Eugene City Public Works	.	.	.	1	.	1	1	.	1	1	.	5
2513	Lane County Public Works	.	.	1	1	.	1	1	.	1	1	1	7
2521	South Carolina DOT	.	.	1	1	.	1	.	.	.	.	.	3
2522	City of Columbia	.	.	1	1	.	.	.	.	.	.	.	2
2525	Texas Department of Transportation	.	.	1	1	.	1	1	.	.	.	.	4
2529	Utah Department of Transportation Region 3	.	.	.	1	.	1	1	.	1	1	.	5
2533	Washington State DOT	.	.	1	.	.	.	.	.	.	.	1	2
2534	Bellingham City Public Works	.	.	1	1	.	1	1	.	1	.	1	6
2537	Washington State Department of Transportation	.	.	1	1	.	1	1	.	1	1	1	7
2543	Wisconsin Department of Transportation District 1	.	.	1	1	.	1	1	.	1	1	.	6
2544	Beloit City Public Works	.	.	1	1	.	1	1	.	1	1	.	6
2546	Janesville City Public Works	.	.	1	.	.	.	.	.	1	.	1	3
2555	Modesto City Public Works	.	.	1	1	.	1	1	.	.	1	.	5
2556	City of Daytona Beach Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2563	Gulf Shores Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2566	Flagstaff City Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2570	Palm Springs City Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2580	Naples City Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2594	Old Orchard Beach Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2602	City of Huntsville	.	.	1	.	.	1	1	.	1	1	1	6
2603	Madison County	.	.	1	1	.	1	1	.	1	1	.	6
2608	Connecticut DOT	.	.	1	1	.	1	1	.	1	1	.	6

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Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2609	New London City Public Works	.	.	.	1	.	1	.	.	.	.	.	2
2613	Norwich City Public Works	.	.	.	1	.	1	.	.	1	1	1	5
2616	Florida DOT	.	.	1	1	.	1	1	.	1	.	.	5
2618	Cape Coral City Public Works	.	.	.	1	.	1	1	.	.	.	.	3
2621	Lee County DOT, Traffic Section	.	.	1	1	.	1	.	.	1	1	.	5
2624	Volusia County Public Works	.	.	1	1	.	1	1	.	.	.	1	5
2632	Polk County Public Works	.	.	1	1	.	1	1	.	1	1	1	7
2636	Hinds County Public Works	.	.	1	1	.	.	.	.	.	.	.	2
2640	North Carolina DOT	.	.	1	.	.	1	1	.	1	1	1	6
2643	City of Greenville	.	.	1	1	.	1	1	.	.	.	1	5
2644	Missouri Department of Transportation	.	.	1	.	.	.	.	.	.	.	.	1
2645	Branson Public Works Department	.	.	1	.	.	.	.	.	.	.	.	1
2656	Sandusky City Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2659	Hilton Head Island Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2663	Gatlinburg City Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2670	Rutland City Public Works	.	.	1	.	.	.	.	.	.	.	.	1
2678	Beaumont City Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2679	Provo City Public Works	.	.	1	1	.	.	1	.	.	.	1	4
2680	Orem City Public Works	.	.	.	.	.	1	.	.	.	.	1	2
2684	Ada County Highway District	.	.	1	1	.	1	1	.	1	1	1	7
2688	Greene County Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2690	Fort Wayne City Public Works	.	.	.	1	.	1	1	.	1	1	1	6
2693	Indiana DOT	.	.	1	1	.	1	1	.	.	1	.	5

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2698	Lancaster City Public Works	.	.	1	.	.	1	.	.	.	.	1	3
2707	Asheville City Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2708	North Carolina DOT	.	.	1	1	.	1	1	.	1	1	.	6
2710	Hamilton County Public Works	.	.	1	1	.	.	1	.	1	.	.	4
2712	Chattanooga City Public Works	.	.	1	1	.	1	1	.	1	.	1	6
2714	Springfield (MO) City Public Works	.	.	1	1	.	1	1	.	1	1	1	7
2715	Missouri DOT	.	.	1	1	.	1	1	.	1	1	.	6
2716	Reno City Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2717	Sparks City Public Works	.	.	1	1	.	1	1	.	1	1	1	7
2730	Roanoke City Public Works	.	.	1	1	.	1	.	.	.	1	1	5
2731	Virginia DOT	.	.	1	1	.	.	.	.	.	1	1	4
2737	Texas DOT	.	.	1	1	.	1	.	.	1	1	.	5
2738	McAllen City Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2743	Port Arthur City Public Works	.	.	1	1	.	1	1	.	.	.	1	5
2761	Spokane City Public Works	.	.	.	1	.	1	1	.	1	1	.	5
2762	Spokane County Public Works	.	.	1	1	.	1	1	.	1	1	1	7
2765	Georgia DOT	.	.	1	.	.	.	.	.	.	.	.	1
2767	Minnesota DOT	.	.	1	.	.	.	.	.	.	.	.	1
2768	Utah DOT	.	.	1	.	.	.	.	.	.	.	.	1
2769	Santa Barbara City Public Works	.	.	1	1	.	.	.	.	.	.	.	2
2770	Caltrans	.	.	1	1	.	1	1	.	1	.	.	5
2771	Santa Barbara County Public Works	.	.	1	1	.	1	1	.	1	.	.	5
2773	Santa Maria City Public Works	.	.	1	1	.	1	1	.	.	.	1	5
2776	Stockton City Public Works	.	.	1	1	.	1	1	.	1	1	.	6
2779	Caltrans	.	.	1	1	.	1	1	.	.	.	.	4

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2780	Manteca City Public Works	.	.	1	1	.	1	1	.	.	1	.	5
2783	Lodi City Public Works	.	.	1	1	.	1	1	.	1	1	.	6
2786	Monterey County Public Works	.	.	1	1	.	1	1	.	1	1	1	7
2788	Seaside City Public Works	.	.	.	1	.	1	1	.	.	.	1	4
2804	San Luis Obispo City Public Works	.	.	1	1	.	1	1	.	.	.	.	4
2805	San Luis Obispo County Public Works	.	.	.	1	.	.	1	.	.	.	.	2
2807	Caltrans	.	.	1	.	.	.	1	.	.	.	1	3
2808	Turlock City Public Works	.	.	1	1	.	1	1	.	.	1	.	5
2813	Caltrans	.	.	.	.	.	1	1	.	.	.	.	2
3045	Gastonia City Traffic Engineering	.	.	.	.	.	1	1	1	1	1	1	6
	Total	374	391	516	508	423	470	434	290	310	274	301	4291

# Appendix C. Transit Management Surveys Returned by Agency

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
5	Capital District Transit Authority (CDTA)	1	1	1	1	1	1	1	.	1	1	.	9
28	Lehigh and Northampton	1	1	1	1	1	1	1	.	1	1	.	9
60	Douglas County Georgia Department of Transportation	1	1	1	1	1	1	1	1	1	1	1	11
76	Metropolitan Atlanta Rapid Transit Authority MARTA	1	1	1	1	1	1	1	1	.	.	.	8
84	Austin Capital Metropolitan Transportation Authority	1	1	1	1	1	1	1	1	.	1	.	9
107	Golden Empire Transit (GET)	1	1	1	1	1	.	1	.	.	.	.	6
124	Harford County Transportation	1	1	1	1	1	1	1	1	1	1	1	11
125	Central Maryland Regional Transit (CMRT)	1	1	1	1	1	1	1	1	1	.	.	9
130	Maryland Department of Transportation	1	1	1	1	1	1	.	.	.	1	.	7
133	Capital Area Transit (CATS)	1	1	1	1	1	1	1	.	1	1	1	10
153	Birmingham-Jefferson County Transit Authority	1	1	1	1	1	1	1	1	.	.	.	8
187	Massachusetts Bay Transportation Authority	1	1	.	1	1	1	1	1	.	1	.	8
195	Merrimack Valley Regional Transit	1	1	.	.	.	.	.	.	.	.	.	2
221	Niagara Frontier Transportation Authority	1	1	1	1	1	1	1	1	1	.	.	9
223	Blue Bird Coach Lines/Niagara Scenic Bus Lines	1	1	1	1	1	.	.	.	.	.	.	5
235	Berkeley-Charleston-Dorchester Council of Governments	1	1	1	1	1	1	1	.	1	.	1	9
243	Charlotte Department of Transportation	1	.	.	.	.	.	.	.	.	.	.	1
249	Gastonia Transit	1	1	1	1	1	1	1	1	.	.	.	8

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
275	Cook-DuPage Transportation	1	1	1	1	1	1	1	1	1	1	1	11
289	Chicago Transit Authority (CTA)	1	1	1	1	1	1	1	1	.	.	1	9
291	East Chicago Transit	1	1	1	1	1	1	1	1	.	.	.	8
295	Hammond Transit System	1	1	1	1	1	1	1	1	.	.	.	8
312	LCEOC, Inc.	1	1	1	1	1	1	1	.	.	.	.	7
318	North Township of Lake County	1	1	1	1	1	1	1	1	1	.	1	10
319	Northeast Illinois Regional Commuter RR Corporation	1	1	1	1	1	.	1	1	1	1	.	9
320	Northern Indiana Commuter	1	1	1	1	1	1	1	1	1	1	.	10
324	Opportunity Enterprises Incorporated	1	1	1	1	1	1	1	.	.	.	.	7
325	PACE	1	1	1	1	1	1	1	1	.	.	1	9
326	Portage Township Transportation	1	1	1	.	.	.	.	.	.	.	.	3
368	MetroSORTA	1	1	1	1	1	1	1	1	1	.	1	10
373	Campus Bus Service	1	1	1	.	.	.	.	.	.	.	.	3
409	Greater Cleveland Regional Transit	1	1	1	1	1	1	1	1	1	1	.	10
410	Laketran	1	1	1	1	1	1	1	1	1	.	.	9
411	Lorain County Transit	1	1	1	1	1	1	1	1	1	1	.	10
412	Metro Regional Transit Authority	1	1	1	1	1	1	1	.	1	.	.	8
432	COTA	1	1	1	1	1	1	1	1	.	.	.	8
456	Denton City Manager	1	1	1	1	1	1	1	1	1	.	.	9
471	Mesquite City Transit	1	1	1	1	1	1	1	1	1	1	.	10
487	Dallas Area Rapid Transit (DART)	.	1	1	1	.	1	.	1	1	.	.	6
492	Fort Worth Transportation Authority (The T)	1	1	1	1	1	.	1	1	1	1	.	9
495	Denton County Transit Authority (DCTA)	1	1	1	1	1	1	1	1	.	1	1	10
504	Grand Prairie City	1	1	1	1	1	1	1	1	1	.	1	10
522	Miami Valley Regional Transit	1	1	1	1	1	1	1	.	.	1	.	8
526	Springfield City Area Transit	1	1	1	1	1	1	1	.	1	1	1	10
536	Greeley City	1	1	1	1	1	1	.	1	1	1	1	10
549	Regional Transportation District	1	1	1	1	1	1	1	1	1	.	1	10



Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
552	Ann Arbor Transportation Authority	1	1	1	1	1	1	1	1	1	1	1	11
627	SMART	.	1	1	1	1	1	1	1	.	.	1	8
642	Sun Metro -Mass Transit El Paso City	1	1	1	1	1	1	1	.	1	1	1	10
648	Visalia City Coach	1	1	.	.	.	.	.	.	.	.	.	2
650	Fresno Area Express	1	1	1	1	1	1	1	.	.	1	1	9
659	Grand Rapids Area Transit Authority	1	1	1	1	1	1	1	.	.	.	1	8
684	City of Greensboro/Greensboro Transit Agency	1	1	1	1	1	1	1	.	1	.	1	9
686	High Point Transit	1	1	1	1	1	1	1	.	1	.	.	8
694	Winston-Salem Transit Authority	1	1	1	1	1	1	1	.	.	.	.	7
708	Greenville Transit Authority (GTA)	1	1	1	1	1	1	1	.	.	1	1	9
723	Spartanburg County Transportation Services	1	1	1	1	1	1	1	.	1	.	.	8
724	Spartanburg Area Regional Transit Agency (SPARTA)	1	1	1	1	1	1	1	.	.	1	.	8
737	Hampton Roads Transit	1	1	.	1	1	1	1	1	.	.	.	7
745	Cumberland-Dauphin-Harrisburg	1	1	1	1	1	1	1	.	1	1	.	9
764	Connecticut Transit	1	1	1	1	1	1	1	1	.	1	.	9
765	Greater Hartford Transit District	1	1	1	1	1	1	1	1	1	1	1	11
766	Middletown Transit District	1	1	1	1	1	1	1	1	1	1	.	10
807	METRO Metropolitan Transit Authority of Harris Co	1	1	1	1	1	.	.	.	.	.	1	6
830	Indianapolis Public Transportation	1	1	1	1	1	1	1	1	1	.	.	9
844	Jacksonville Transportation Authority	1	1	.	1	1	1	1	1	1	.	.	8
859	Kansas City Area Transit Authority	.	1	1	.	.	1	1	1	1	.	.	6
883	Knoxville Area Transit	1	1	1	1	1	1	1	.	1	1	1	10
889	Regional Transportation Commission/Citizens Area Transit	1	1	1	1	1	1	1	1	.	.	.	8
905	Central Arkansas Transit Authority	1	1	1	1	1	1	1	.	1	.	.	8
918	Access Services	1	1	1	1	1	1	1	1	1	1	1	11
921	Antelope Valley Transit Authority	1	1	1	1	1	1	1	1	.	1	.	9

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
922	Arcadia Transit	1	1	1	1	1	1	1	1	1	.	1	10
928	Commerce City Municipal Buslines	1	1	1	1	1	1	1	1	1	1	.	10
929	Corona City Dial-A-Ride	1	1	1	1	1	.	1	1	1	.	1	9
932	Gardena City	.	1	.	1	1	1	1	.	.	1	.	6
936	La Mirada City Transit	1	1	1	1	1	1	1	1	.	.	1	9
938	Los Angeles City	1	1	.	1	1	1	1	1	1	.	1	9
944	Torrance City Transit System	1	1	1	1	1	1	1	1	1	.	.	9
946	Culver City Department of Transportation	.	1	1	1	1	1	1	1	1	1	1	10
948	City of Laguna Beach Transit Department	1	1	1	1	1	1	1	1	1	.	1	10
949	Long Beach Public Transportation Company	1	1	1	1	1	1	1	1	1	1	.	10
951	Los Angeles County Metropolitan Transp. Authority/MTA	.	.	1	1	1	1	1	1	.	.	.	6
952	Montebello Bus Lines	1	1	1	1	1	1	1	1	1	.	1	10
953	Norwalk Transit System	1	1	1	1	1	1	1	1	.	.	.	8
955	Orange County Transportation Authority	1	1	1	1	1	1	1	1	1	.	.	9
962	Santa Monica Municipal Bus Lines	.	1	1	1	1	.	1	1	1	.	.	7
964	Simi Valley Transit	1	1	1	1	1	1	1	1	1	.	1	10
965	Gold Coast Transit	1	1	1	1	1	1	1	1	1	1	1	11
966	Southern California Regional Rail Authority	1	1	1	1	1	.	.	.	.	.	.	5
967	Victor Valley Transit Authority	1	1	1	1	1	1	1	1	.	.	.	8
987	River City Transit Authority	1	1	1	1	1	1	.	1	1	1	1	10
993	Memphis Area Transit Authority	1	1	1	1	1	1	1	1	1	1	.	10
1003	Broward County Mass Transit	1	1	1	1	1	1	.	1	1	.	.	8
1031	Coach USA	.	1	.	.	.	.	.	.	.	.	.	1
1041	Miami-Dade Transit Authority	.	1	1	1	1	1	1	1	1	1	.	9
1045	South Florida Regional Transportation Authority	.	1	1	1	1	1	1	1	.	.	.	7
1046	Belle Urban System-Racine	1	1	1	1	1	1	1	1	.	.	.	8
1061	Kenosha Area Transit	1	1	1	1	1	1	1	1	1	.	1	10
1065	Milwaukee County Transit System	1	1	1	.	.	.	.	.	.	.	.	3

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1075	Waukesha County Transit System	1	.	.	.	.	.	.	.	.	.	.	1
1078	Waukesha City Metro Transit	1	1	1	1	1	1	1	1	.	.	.	8
1112	Metro Transit	1	1	1	1	1	1	1	1	1	1	1	11
1118	Metropolitan Transit Authority	1	1	1	1	1	1	1	.	.	.	.	7
1125	Connecticut Transit-New Haven	1	1	1	1	1	1	1	.	.	.	.	7
1128	Greater New Haven Transit District	1	1	1	1	1	1	1	.	.	.	1	8
1142	Louisiana Department of Transportation - Crescent City Connection Division	.	1	1	1	1	1	1	1	.	.	.	7
1154	Jefferson Parish Transit	1	1	1	1	1	1	1	1	1	1	1	11
1160	Regional Transit Authority	1	1	1	1	1	1	.	1	.	.	.	7
1163	St. Bernard Parish Government	1	1	1	1	1	.	.	.	.	.	1	6
1168	Westside Transit Lines	1	1	1	1	1	1	.	.	.	.	.	6
1169	Academy Lines Incorporated(NJ)	.	1	1	1	1	1	1	1	1	.	.	8
1178	Long Beach City	1	1	1	1	1	1	1	1	.	.	.	8
1186	Stamford Dial-A-Ride(CT)	1	1	1	.	.	.	.	.	.	.	.	3
1189	Clarkstown Mini-Trans	1	1	1	1	1	1	1	1	1	1	.	10
1190	Command Bus Company	1	.	.	.	.	.	.	.	.	.	.	1
1191	Connecticut Department of Transportation	.	1	1	1	1	1	1	.	.	1	1	8
1192	Connecticut Transit-Stamford(CT)	1	1	1	1	1	1	1	.	.	.	.	7
1209	GTJC	1	1	.	.	.	.	.	.	.	.	.	2
1210	Hudson Transit Lines Incorporated(NJ)	.	1	.	.	.	.	.	.	.	.	.	1
1211	Huntington Area Rapid Transit (HART)	1	1	1	1	1	1	1	1	1	1	1	11
1215	Jamaica Buses	1	.	.	.	.	.	.	.	.	.	.	1
1220	Liberty Lines Express, Incorporation	.	1	1	1	.	.	.	.	.	.	.	3
1222	MTA Metro-North Railroad	1	1	1	1	1	1	1	.	.	.	1	8
1223	MTA Long Island Bus	1	1	1	1	1	1	1	1	.	.	1	9
1226	Monsey New Square Trails(NJ)	.	1	.	.	.	.	.	.	.	.	.	1
1232	New Jersey Transit Corporation(NJ)	1	1	1	1	1	1	.	1	1	.	.	8
1236	New York Bus Service	.	1	.	.	.	.	.	.	.	.	.	1
1238	New York City DOT	.	1	1	1	1	.	.	.	.	.	.	4

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1241	New York City Transit Authority	1	1	1	1	1	1	1	1	.	.	.	8
1250	Norwalk Transit District	1	1	1	1	.	.	.	.	1	1	1	7
1254	Putnam County Transit	1	1	1	1	1	1	1	1	1	1	1	11
1256	MTA (formerly Queens Surface Corporation)	.	1	1	1	1	.	.	.	.	.	.	4
1259	Coach USA/Rockland Coach	.	1	1	1	1	1	1	1	1	1	1	10
1263	Suburban Transit Corporation(NJ)	.	1	.	.	.	.	.	.	.	.	.	1
1265	Suffolk County	1	1	1	1	1	1	1	1	1	.	.	9
1284	Village of Spring Valley Bus	.	1	1	1	1	1	1	1	1	.	.	8
1286	Westchester County	1	1	1	1	1	1	1	.	1	1	.	9
1289	Central Oklahoma Transit	1	1	1	1	1	1	1	1	1	.	1	10
1314	Omaha Transit Authority	1	1	1	1	1	1	1	.	1	1	1	10
1335	LYNX Central Florida Regional Transit Authority	1	1	.	1	1	1	1	1	1	1	.	9
1382	Port Authority Transit Corporation	.	1	1	1	1	.	1	1	1	1	.	8
1392	Mesa City	1	1	1	1	.	.	.	.	.	.	.	4
1395	Scottsdale City	1	1	.	.	.	.	.	.	.	.	.	2
1399	Glendale City Transportation Department	1	1	1	1	1	1	1	1	.	.	1	9
1409	Peoria Dial-A-Ride	1	1	1	1	1	1	.	1	1	1	1	10
1412	Phoenix Public Transit Department	1	1	1	1	1	1	1	1	1	1	1	11
1413	Regional Public Transportation Authority	1	1	.	.	.	1	1	1	.	.	.	5
1416	Sun Cities Area Transit System	1	1	1	1	1	1	1	1	.	.	.	8
1417	Surprise Dial-A-Ride	1	1	1	1	1	1	1	1	.	.	.	8
1421	ACCESS Transportation Systems	1	1	.	1	1	1	1	1	1	.	1	9
1425	Beaver County Transit Authority	1	1	1	1	1	1	1	1	.	.	1	9
1429	G G & C Bus Company Incorporated	1	1	1	1	1	.	1	1	.	.	.	7
1436	Port Authority of Allegheny County	1	1	1	1	1	1	1	.	1	1	.	9
1442	Westmoreland County Transit	1	1	1	1	1	1	1	1	1	.	1	10
1448	Clark County Public Transportation Benefit Area Authority	1	1	1	1	1	1	1	1	1	.	.	9
1461	Tri-Met	1	1	1	1	1	1	1	1	.	.	1	9

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1477	Greater Attleboro-Taunton Regional Transit Authority	1	1	1	.	.	1	1	1	1	.	1	8
1485	Rhode Island Public Transit Authority	1	1	1	1	1	.	1	1	1	.	.	8
1490	Capital Area Transit	1	1	1	1	1	1	1	1	1	1	.	10
1491	Chapel Hill Transit	1	1	1	1	1	.	.	.	.	1	.	6
1497	Durham Area Transit	1	1	1	1	1	1	1	.	1	.	1	9
1508	Go Triangle	1	1	1	1	1	1	1	1	1	1	.	10
1517	Greater Richmond Transit Company	1	1	.	1	1	1	1	1	.	.	.	7
1518	Petersburg Area Transit	1	1	1	1	1	1	.	1	1	.	.	8
1538	Regional Transit Service Incorporated & Lift Line Incorporated	1	1	1	1	1	1	1	.	.	1	1	9
1590	Utah Transit Authority	1	1	1	1	1	1	1	.	1	1	1	10
1597	VIA Metropolitan Transit	1	1	1	1	1	1	1	1	1	.	.	9
1614	North San Diego County Transit Development Board	1	1	.	1	1	1	1	1	1	1	.	9
1619	San Diego Metropolitan Transit Development Board	1	1	1	.	1	1	.	1	1	.	.	7
1620	San Diego Trolley Incorporated	1	1	1	1	1	.	.	.	.	.	.	5
1622	AC Transit	1	1	1	1	1	1	1	.	1	1	1	10
1623	Alameda Ferry Services	.	1	1	1	1	1	1	1	.	.	.	7
1624	Bay Area Rapid Transit District	1	1	.	1	1	1	1	1	.	1	1	9
1627	Central Contra Costa	.	1	1	1	.	.	.	1	.	.	.	4
1628	Fairfield City, Fairfield Transit System	1	1	1	1	1	1	1	.	.	.	.	7
1631	Napa County Transit	1	1	1	1	1	1	1	.	.	.	.	7
1637	Santa Rosa City	1	1	1	1	1	1	1	.	.	.	.	7
1640	Livermore Amador Valley Transit (LAVTA)	1	1	1	1	1	1	1	1	1	1	1	11
1641	Monterey-Salinas Transit	1	1	.	.	.	.	.	.	.	.	.	2
1643	Muni	.	1	.	1	.	.	.	1	1	.	1	5
1644	CalTrain	1	1	.	1	.	.	.	1	.	.	1	5
1647	San Mateo County Transit District (SamTrans)	1	1	.	1	1	.	.	.	.	.	.	4
1649	Santa Clara County Transit	1	1	1	1	1	1	1	1	1	1	.	10
1650	Santa Cruz Metropolitan Transit	1	1	1	1	1	1	1	.	.	.	.	7
1651	Sonoma County Transit	1	1	1	1	1	1	1	.	.	.	.	7

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1652	SolTrans (Solano County Transit)	1	1	.	1	1	.	1	1	.	1	1	8
1653	Western Contra Costa Transit	1	1	1	1	1	1	1	1	1	1	1	11
1658	Puerto Rico Highway and Transportation Authority	1	1	.	1	.	.	.	.	.	.	.	3
1666	Manatee County Transit	.	.	.	1	1	1	.	.	1	.	1	5
1670	Sarasota County Transportation	1	1	1	1	1	1	1	.	.	.	1	8
1674	Lackawanna County Transit System (COLTS)	1	1	1	1	1	1	1	.	.	.	1	8
1681	Luzerne County Transit Authority (LCTA)	1	.	1	1	1	1	1	.	1	1	1	9
1697	Everett Transit	1	1	1	1	1	1	1	1	1	1	1	11
1701	King County Metro	1	1	1	1	1	1	1	1	1	1	1	11
1704	Kitsap Transit	1	1	1	1	1	1	1	1	1	.	.	9
1706	Pierce County Ferry Operations	1	1	1	1	1	1	1	1	1	1	.	10
1707	Pierce Transit	1	1	1	1	1	1	1	1	1	1	1	11
1710	Seattle Monorail Transit	1	1	1	1	1	1	1	1	1	1	.	10
1712	Snohomish County Senior Services	.	1	1	1	1	1	.	.	.	.	.	5
1713	Community Transit Snohomish County Public Transportation	1	1	1	1	1	1	1	1	.	.	1	9
1724	Washington State Ferries	1	1	1	1	1	1	1	1	1	1	1	11
1734	Pioneer Valley Transit Authority	1	1	1	1	1	1	1	.	1	1	.	9
1738	Bi-State Development Agency	1	1	1	1	1	1	1	1	1	.	1	10
1756	Central New York Regional Transit Authority	.	1	1	1	1	1	1	.	.	1	.	7
1791	Hillsborough Area Regional Transit Authority	.	1	1	1	1	1	1	1	1	.	.	8
1795	Pasco County Public Transportation (PCPT)	1	1	1	1	1	1	1	1	1	.	1	10
1799	Pinellas Suncoast Transit Authority	1	1	1	1	1	1	1	1	.	.	.	8
1811	Toledo Area Regional Transit Authority (TARTA)	1	1	1	1	1	1	1	.	1	.	1	9
1823	Sun Tran	1	1	1	1	1	1	1	1	1	.	1	10
1840	Metropolitan Tulsa Transit	.	1	1	1	1	1	1	.	1	.	1	8
1855	Fairfax Connector Bus System	1	1	1	1	1	1	1	1	.	.	1	9
1860	Frederick County Transit	1	1	1	1	1	1	1	1	1	1	.	10

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
1864	Montgomery County - Ride On	1	1	1	1	1	1	1	1	1	1	.	10
1866	Northern Virginia Transportation Commission (NVTC)	1	1	.	.	.	.	.	.	.	.	.	2
1867	Potomac and Rappahannock Transportation Commission	1	1	1	1	1	1	1	1	1	1	1	11
1874	Washington Metropolitan Area Transit Authority	1	1	1	1	1	1	1	1	1	.	1	10
1888	Palm Tran operated by Florida Transit Management Incorporated	1	1	1	1	1	1	1	.	.	.	.	7
1896	Wichita Area Metropolitan Planning Organization	1	1	1	1	1	1	1	.	.	.	1	8
1913	Western Reserve Transit Authority	1	1	1	1	1	1	1	.	1	1	1	10
2019	Sun Van	1	1	1	1	1	1	1	1	.	.	.	8
2273	City of Albuquerque Transit Department	1	1	1	1	1	1	1	.	1	1	.	9
2392	Sacramento Regional Transit District (RT)	1	1	1	1	1	1	.	.	.	.	1	7
2410	Oahu Transit Services (The Bus)	1	1	1	1	1	1	1	.	.	.	.	7
2458	Southeastern Pennsylvania Transportation Authority (SEPTA)	.	1	1	1	1	1	1	1	.	.	.	7
2461	Gary Public Transportation Corporation	.	.	1	1	1	1	1	1	1	.	.	7
2462	Advanced Transportation Solutions	.	1	1	1	1	1	1	1	.	.	.	7
2463	Charlotte Area Transit System (CATS) (Charlotte DOT)	.	1	1	1	1	1	1	1	1	1	.	9
2464	Detroit City DOT	.	.	.	.	.	.	.	1	.	.	1	2
2471	Montgomery Area Transit System	.	.	.	.	.	1	1	.	1	1	1	5
2490	Escambia County Area Transit	.	.	.	.	.	1	.	.	.	1	1	3
2514	Lane Transit District	.	.	.	.	.	1	1	.	1	.	1	4
2520	Red Rose Transit Authority	.	.	.	.	.	1	1	.	1	1	1	5
2535	Whatcom Transportation Authority	.	.	.	1	.	1	1	.	1	.	1	5

Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
2539	Spokane Transit Authority	.	.	.	.	.	1	1	.	1	1	1	5
2548	Janesville Transit System	.	.	.	.	.	1	1	.	.	1	1	4
2574	Summit Stage Transit System	.	.	1	.	.	.	.	.	.	.	.	1
2598	Bay Area Transportation Authority (BATA)	.	.	1	.	.	.	.	.	.	.	.	1
2665	City of Gatlinburg Mass Transit	.	.	1	.	.	.	.	.	.	.	.	1
2669	Park City Transit	.	.	1	.	.	.	.	.	.	.	.	1
2830	Long Island Rail Road	.	.	1	1	1	.	.	1	.	.	1	5
2831	Port Authority Trans-Hudson (PATH)	.	.	1	1	1	1	1	1	.	.	.	6
2832	Golden Gate Bridge, Highway and Transportation	.	.	.	1	1	1	.	.	1	.	1	5
2833	Sound Transit	.	.	1	1	1	.	1	.	1	1	.	6
2847	Monterey-Salinas Transit	.	.	1	1	.	1	1	.	1	1	.	6
2863	Sandusky Transit System	.	.	1	.	.	.	.	.	.	.	.	1
2864	Collier Area Transit	.	.	1	.	.	.	.	.	.	.	.	1
2865	Cape May County Fare Free Transportation	.	.	1	.	.	.	.	.	.	.	.	1
2866	Brainerd Transit	.	.	1	.	.	.	.	.	.	.	.	1
2867	Mountain Line/Van Go	.	.	1	.	.	.	.	.	.	.	.	1
2868	Riverside Transit Agency	.	.	.	1	1	1	1	1	1	.	1	7
2869	McAllen Express	.	.	.	1	.	1	1	.	1	1	.	5
2870	Sunline Transit Agency	.	.	1	.	.	.	.	.	.	.	.	1
3023	Asheville Transit System	.	.	.	.	.	1	1	.	1	1	1	5
3024	Treasure Valley Transit	.	.	.	.	.	1	1	.	1	1	1	5
3026	Chattanooga Area Regional Transit Authority	.	.	.	.	.	1	1	.	1	1	1	5
3027	Lee County Transit	.	.	.	.	.	1	1	.	1	1	1	5
3028	Fort Wayne Public Transportation (Citilink)	.	.	.	.	.	1	.	.	.	.	1	2
3029	Greenville Area Transit	.	.	.	.	.	1	1	.	1	.	1	4
3030	Huntsville Transit	.	.	.	.	.	1	1	.	1	1	.	4
3031	Jackson Transit System (Jatran)	.	.	.	.	.	.	1	.	.	.	.	1
3032	Beloit Transit System	.	.	.	.	.	1	1	.	1	1	.	4
3033	Stanislaus Regional Transit	.	.	.	.	.	1	1	.	1	1	.	4
3034	Modesto Area Express	.	.	.	.	.	1	1	.	1	.	1	4



Agency Number	Agency Name	Year											Total
		1999	2000	2002	2004	2005	2006	2007	2010	2013	2016	2019	
3035	East Alabama Regional Planning and Development Commission	.	.	.	.	.	1	1	.	1	1	1	5
3039	San Luis Obispo Transit	.	.	.	.	.	1	1	.	1	.	.	3
3040	Santa Barbara Metropolitan Transit District	.	.	.	.	.	1	1	.	1	1	.	4
3041	City Utilities Transit Services of Springfield, MO	.	.	.	.	.	1	1	.	1	1	1	5
3042	San Joaquin Regional Transit District	.	.	.	.	.	.	1	.	.	.	.	1
3044	MTA Bus Company	.	.	.	.	.	1	1	1	.	.	.	3
3093	San Francisco Bay Ferry (under WETA)	.	.	.	.	.	.	.	.	1	.	1	2
	Total	193	220	210	213	203	211	206	143	142	99	108	1948

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