Metropolitan Intelligent Transportation Systems (ITS) Infrastructure 2004 Arterial Management Survey

Table of Contents

Section I

CHARACTERISTICS OF SIGNALIZED INTERSECTIONS:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

	Total in 2002	2002 Estimated total by 2005	Total in 2004	2004 Estimated total by 2005
1. Total number of signalized intersections operated by your agency				
2. Number of signalized intersections operated by your agency under closed loop or central system control				
3. Number of signalized intersections operated by your agency that allow signal preemption for emergency vehicles				
4. Number of signalized intersections operated by your agency that allow signal priority for transit vehicles				
5. Number of signalized intersections operated by your agency within 200 feet of a highway-rail intersection that adjust signal timing in response to train crossing to avoid vehicle entrapment				
6. Total number of signalized intersections with automated photo red light running enforcement				
7. Total number of signalized intersections that are progressively interconnected	N/A	N/A		
8. Total number of signalized intersections under real-time traffic adaptive control using SCOOT/SCATS or other similar advanced software	N/A	N/A		
9. Total number of signalized intersections that are fully or semi actuated	N/A	N/A		
10. Total number of signalized intersections with "Dilemma Zone" protection	N/A	N/A		

Real-time electronic traffic data collection:

	Total in 2002	2002 Estimated total by 2005	Total in 2004	2004 Estimated total by 2005
11. Total number of signalized intersections with electronic data collection capabilities..				

Please indicate the number of signalized intersections that have the following data collection technologies:

Number of Signalized Intersections with data collection technologies

	Total in 2002	2002 Estimated total by 2005	Total in 2004	2004 Estimated total by 2005
Loop detectors (for volumes, speed, and density)				
Video detection cameras (for volume, speed, and density)				
Radar	N/A	N/A		
Other (please specify)				

12. What is the time interval between signal timing plan modification?

☐ 8 years or more

☐ 4 years or more

☐ 2 years or more

☐ annual

☐ as needed

☐ Other (please specify): [   ]

13. What software do you use to manage signals?

[   ]

14. Does your agency participate in regional coordination of traffic signal timing plans?

☐ Yes

☐ No

☐ Don't know

15. What is the scope of signal timing plan modifications?

☐ System wide

☐ Central business district

☐ Major intersection

☐ Other (please specify): [   ]

ROADSIDE TECHNOLOGIES TO DISTRIBUTE EN-ROUTE TRAVELER INFORMATION:

	Total in 2002	2002 Estimated total by 2005	Total in 2004	2004 Estimated total by 2005
16. Total centerline miles covered by Highway Advisory Radio (HAR)				
17. Total number of permanent Changeable Message Signs (CMS) deployed on arterials:				

HIGHWAY-RAIL INTERSECTIONS:	Total in 2002	2002 Estimated total by 2005	Total in 2004	2004 Estimated total by 2005
18. Total number of highway-rail intersections				
19. Total number of highway-rail intersections under electronic surveillance				
20. Total number of highway-rail intersections with vehicle intrusion detection devices				

METHODS USED TO DISTRIBUTE INFORMATION TO THE PUBLIC:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

21a. Please check all the methods that your agency uses, or will use, to distribute information to the public.

	2002 Response		2004 Response	
	In 2002	by 2005	In 2004	by 2005
Dedicated cable TV:	☐	☐	☐	☐
Automated telephone system:	☐	☐	☐	☐
Internet Web sites	☐	☐	☐	☐
Pagers or personal data assistants:	☐	☐	☐	☐
Interactive TV:	☐	☐	☐	☐
Kiosks:	☐	☐	☐	☐
E-mail or other direct PC communication:	☐	☐	☐	☐
In-vehicle navigation systems:	☐	☐	☐	☐
Facsimile:	☐	☐	☐	☐
511 Telephone System:	☐	☐	☐	☐
Do not distribute information:	☐	☐	☐	☐
Other (please specify):			☐	☐

21b. Please check all the types of information that your agency distributes, or will distribute by 2005,to the public.

	In 2004	by 2005
Arterial travel times:	☐	☐
Arterial travel speeds:	☐	☐
Incident information:	☐	☐
Special events:	☐	☐
Work zones/construction events:	☐	☐
Parking:	☐	☐
Weather:	☐	☐
Road surface conditions:	☐	☐
Road closures:	☐	☐
Detours:	☐	☐
Alternate routes:	☐	☐
Road restrictions:	☐	☐
Congestion:	☐	☐
CCTV images:	☐	☐
Travel and Tourist information:	☐	☐
Real-time construction information	☐	☐
Other (please specify):	☐	☐

INTEGRATION:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

22. Does your agency provide arterial travel time, speed, and condition information in real-time to the following type of agencies?

	2002 Response		2004 Response	
	Yes	No	Yes	No
Agencies involved in highway incident management:	☐	☐	☐	☐
Freeway Management Agencies:	☐	☐	☐	☐
Arterial Management Agencies:	☐	☐	☐	☐
Public Transit Agencies:	☐	☐	☐	☐

23. Does your agency receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?

	2002 Response	2004 Response
Yes	☐	☐
No	☐	☐

24. Does your agency share, in real-time, timing plans with another agency, coordinate changes to timing plans with another agency, and/or turn over control of signals to another agency?

	2002 Response		2004 Response	
	Yes	No	Yes	No
Share timing plans information in real-time:	☐	☐	☐	☐
Coordinate changes to timing plans:	☐	☐	☐	☐
Turn over control of signals:	☐	☐	☐	☐

25. Does your agency receive, in real-time, arterial travel times derived from vehicle probes from any toll collection agency?

	2002 Response	2004 Response
Yes	☐	☐
No toll collection:	☐	☐
No	☐	☐

25a. If no, are there future plans for vehicle probes in:

☐ 1 year?
☐ 2 years?
☐ more than 2 years?
☐ No future plans.

TRAFFIC INCIDENT MANAGEMENT:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

Service Patrols:

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
26. Total number of arterial miles patrolled by service patrols				
27. Total number of vehicles operated				

28. Service Hours

2002 Response	2004 Response	
☐	☐	Peak hours only
☐	☐	24/7
☐	☐	Other:

Incident Detection and Verification Methods:

Please provide the miles covered by each of the following incident detection/verification methods:

	Miles covered in 2002	2002 estimated miles covered by 2005	Miles covered in 2004	2004 estimated miles covered by 2005
29. Free cellular phone call to a dedicated phone number other than 911				
30. Computer algorithms				
31. CCTV				
32. Other:				

33. Are the CCTV images made available to the public?

☐ Yes
☐ No
☐ Don't know
☐ No CCTV

34. Does your agency operate a Traffic Operation Center (TOC) or Traffic Management Center (TMC)?

☐ Yes. Please provide the contact for this TOC/TMC (name, e-mail, phone, etc.)

☐ No

WORK ZONES

35. Has your agency deployed ITS technology at work zones to take over the function of permanent systems that are degraded or made inoperative by construction activities?

☐ Yes
☐ No
☐ Don't know

36. Does your agency use ITS within, or in advance of, work zones to improve mobility, enhance safety, and/or to manage incidents?

☐ Yes
☐ No
☐ Don't know

Section II

SAFETY AND WEATHER:

37. Do you have a Pedestrian Safety Program to reduce fatalities, injuries, or conflicts to pedestrians?

    ☐ Yes, formal
    ☐ Yes, informal
    ☐ No
    ☐ Don't Know

38. Do you use electronic devices to collect Pedestrian data (e.g. pedestrian crossing or walking on the sidewalk)?

    ☐ Yes. What types of devices are used? (Check all that apply)

        ☐ Infrared detection
        ☐ Ultrasonic detection
        ☐ Doppler radar detection
        ☐ Microwave detection
        ☐ Piezometric detection
        ☐ Video imaging
        ☐ Push button related
        ☐ Other: _____

    ☐ No

39. Do you use electronic technologies to improve the safety and mobility of pedestrians?

    ☐ Yes. What types of technologies are used? (Check all that apply)

        ☐ Countdown pedestrian signals
        ☐ Automatic pedestrian detection
        ☐ "Smart" lighting (brightens when pedestrians are present)
        ☐ Animated eyes
        ☐ Dynamic "No Right Turn on Red Signs"
        ☐ In-roadway flashing lights
        ☐ Pedestrian-activated flashing beacons
        ☐ Other: _____

    ☐ No

40. Does your agency use electronic devices to detect the presence of pedestrians (e.g., pedestrian crossing or walking on the sidewalk)?

    ☐ Yes. What types of devices are used? (Check all that apply)

        ☐ Infrared detection
        ☐ Ultrasonic detection
        ☐ Doppler radar detection
        ☐ Microwave detection
        ☐ Piezometric detection
        ☐ Video imaging
        ☐ Other: _____

    ☐ No

41. If your agency does not have any pedestrian-related ITS devices, would it consider using them to improve safety and mobility?

    ☐ Yes
    ☐ No
    ☐ Maybe

SAFETY AND WEATHER (Cont.):

42. Does your agency use automated enforcement in facilities under its jurisdiction?

☐ Yes. What types of automated enforcement are used? (Check all that apply)

☐ Speeding
☐ Red-light running
☐ Rail Road crossings
☐ Other: _____

☐ No

43. With which agencies are the automated enforcement data shared?

_____

44. With which agencies are the automated enforcement data coordinated?

_____

45. Do you have a program for setting speed limits on arterials?

☐ Yes. What is it based on? (Check all that apply)

☐ The 85th percentile
☐ Engineering judgment
☐ Speed studies
☐ Radar studies
☐ Type of arterial
☐ Other: _____

☐ No

46. Does your agency have traffic signal plans designed specifically for inclement weather or slick pavement?

☐ Yes. What criteria are used to implement weather-related signal timing?(Check all that apply)

☐ Light precipitation
☐ Heavy precipitation
☐ Slick pavement (due to water, snow or ice)
☐ Low visibility (due to fog, wind-blown snow/dust, smoke, etc.)
☐ Traffic volume
☐ Time of day
☐ Other: _____

☐ No

47. Does your agency modify incident detection algorithms due to inclement weather or slick pavement?

☐ Yes.   What criteria are used to implement weather-related incident detection?

☐ Light precipitation
☐ Heavy precipitation
☐ Slick pavement (due to water, snow or ice)
☐ Low visibility (due to fog, wind-blown snow/dust, smoke, etc.)
☐ Traffic volume
☐ Time of day
☐ Other: _____

☐ No

SAFETY AND WEATHER (Cont.):

48. Does your agency have any Dynamic Curve Warning Systems?

☐ Yes

How many has your agency deployed? ☐

How many on 2-lane, 2-way road curves? ☐

Does your agency have any documentation of the effectiveness of these systems?

☐ Yes
☐ No
☐ Don't know

☐ No

49. Does your agency have any in-pavement sensors to detect the condition of the roadway?

☐ Yes, what conditions are measured? (Check all that apply)

☐ Temperature
☐ Presence of water
☐ Presence of ice
☐ Anti-icing chemical concentration
☐ Other: ☐

☐ No

50. Has your agency deployed any Road Weather Information Systems (RWIS)?

☐ Yes, how many have you deployed? ☐

What information is collected? (Check all that apply)

☐ Temperature
☐ Humidity
☐ Wind speed
☐ Wind direction
☐ Precipitation (rain)
☐ Precipitation (snow)
☐ Other: ☐

☐ No

51. Does your agency receive weather products tailored to your particular requirements?

☐ Yes
☐ No
☐ Don't know

NATIONAL ITS STANDARDS

52. Please check the ITS standards that you are using (deployed or in current RFP) or considering (assessing for use) in your operational arterial management systems. The U.S. DOT ITS Standards Program recognizes that there may be other ITS standards surveys being conducted by other entities. If this is the case, please pardon any overlap; however, your input to these surveys will help the U.S. DOT ITS Standards Program better serve your needs and requirements. If no standards are used, skip to the question 55.

List of standards to consider when deploying arterial management projects:

Traffic Management

Using	Considering	
☐	☐	NTCIP 1202 - Object Definitions for Actuated Traffic Signal Controller Units
☐	☐	NTCIP 1210 - Objects for Signal Systems Master
☐	☐	NTCIP 1211 - Objects for Signal Control Priority

Freeway Management

Using	Considering	
☐	☐	NTCIP 1203 - Object Definitions for Dynamic Message Signs
☐	☐	NTCIP 1204 - Object Definitions for Environmental Sensor Stations
☐	☐	NTCIP 1205 - Objects for CCTV Camera Control
☐	☐	NTCIP 1206 - Object Definitions for Data Collection and Monitoring (DCM) Devices
☐	☐	NTCIP 1207 - Object Definitions for Ramp Meter Control
☐	☐	NTCIP 1208 - Object Definitions for Video Switches
☐	☐	NTCIP 1209 - Object Definitions for Transportation Sensor System
☐	☐	NTCIP 1213 - Electrical and Lighting Mgmt System Interoperability & Intercommunications Std
☐	☐	NTCIP 1301 - Weather Report Message Set for ESS

Advanced Transportation Controller

Using	Considering	
☐	☐	ITE 9603-1 - Application Programming Interface (API) Standard for the Advanced Transportation Controller (ATC)
☐	☐	ITE 9603-2 - Advanced Transportation Controller (ATC) Cabinet
☐	☐	ITE 9603-3 - Advanced Transportation Controller (ATC) Standard Specification for the Type 2070 Controller

Profiles and Base Standards

Using	Considering	
☐	☐	NTCIP 1201 - Global Object Definitions
☐	☐	NTCIP 1102 - Octet Encoding Rules (OER)
☐	☐	NTCIP 1103 - Transportation Management Protocol
☐	☐	NTCIP 1104 - CORBA Naming Convention Specification
☐	☐	NTCIP 1105 - CORBA Security Service Specification
☐	☐	NTCIP 1106 - CORBA Near-Real Time Data Service Specification
☐	☐	NTCIP 2101 - Point to Multi-Point Protocol Using RS-232 Subnetwork Profile
☐	☐	NTCIP 2102 - Subnetwork Profile for PMPP using FSK Modems
☐	☐	NTCIP 2103 - Subnet Profile for Point-to-Point Protocol using RS 232
☐	☐	NTCIP 2104 - Subnetwork Profile for Ethernet
☐	☐	NTCIP 2201 - Transportation Transport Profile
☐	☐	NTCIP 2202 - Transport Profile for Internet (TCP/IP and UDP)
☐	☐	NTCIP 2301 - Application Profile for Simple Transportation Management Framework (STMF)
☐	☐	NTCIP 2302 - Application Profile for Trivial File Transfer Protocol
☐	☐	NTCIP 2303 - Application Profile for File Transfer Protocol (FTP)
☐	☐	NTCIP 2304 - Application Profile for Data Exchange ASN.1 (DATEX)
☐	☐	NTCIP 2305 - Application Profile for Common Object Request Broker Architecture (CORBA)

☐   ☐ NTCIP 8003 - Profiles - Framework and Classification of Profiles
☐   ☐ NTCIP 9010 - XML Standard for Center-to-Center Communications
☐   ☐ IEEE P1488 - IEEE Standard for Message Set Template for Intelligent Transportation Systems
☐   ☐ IEEE P1489 - IEEE Standard for Data Dictionaries for Intelligent Transportation Systems - Part 1 Functional Area Data Dictionaries

Center-to-Center Communications

Using   Considering

☐   ☐ ITE TM 1.03 - Standard for Functional Level Traffic Management Data Dictionary (TMDD)
☐   ☐ ITE TM 2.01 - Message Sets for External TMC Communication (MS/ETMCC)
☐   ☐ NTCIP 1602 - Generic Reference Model for C2C Communications

Incident Management

Using   Considering

☐   ☐ IEEE 1512-2000 Standard for Common Incident Management Message Sets for use by Emergency Management Centers
☐   ☐ IEEE P1512.1 - Standard for Traffic Incident Management Message Sets for Use by EMCs
☐   ☐ IEEE P1512.2 - Standard for Public Safety Incident Management Message Sets for Use by EMCs
☐   ☐ IEEE 1512.3-2000 - Standard for Hazardous Material Incident Management Message Sets for Use by Emergency Management Centers
☐   ☐ IEEE 1512.4 - Standard for Emergency Management to Emergency Vehicle Subsystems Use by Emergency Management Centers
☐   ☐ IEEE P1556 - Standard for Security and Privacy of Vehicle/Roadside Communication Including Smart Card Comm.

Advanced Traveler Information System

Using   Considering

☐   ☐ SAE J2354 - Message Set for Advanced Traveler Information System (ATIS)
☐   ☐ SAE J2540-2 - ITIS Phrase Lists (International Traveler Information Systems)
☐   ☐ SAE J2630 - Converting ATIS Message Standards from ASN.1 to XML

Transit

Using   Considering

☐   ☐ APTA - TCIP Dialogs
☐   ☐ NTCIP 1400 - TCIP - Framework Standard
☐   ☐ NTCIP 1401 - TCIP - Common Public Transportation (CPT) Business Area Standard
☐   ☐ NTCIP 1402 - TCIP - Incident Management (IM) Business Area Standard
☐   ☐ NTCIP 1403 - TCIP - Passenger Information (PI) Business Area Standard
☐   ☐ NTCIP 1404 - TCIP - Scheduling/Runcutting (SCH) Business Area Standard
☐   ☐ NTCIP 1405 - TCIP - Spatial Representation (SP) Business Area Standard
☐   ☐ NTCIP 1406 - TCIP - Onboard (OB) Business Area Standard
☐   ☐ NTCIP 1407 - TCIP - Control Center (CC) Business Area Standard
☐   ☐ NTCIP 1408 - TCIP - Fare Collection (FC) Business Area Standard

Commercial Vehicle Operations

Using   Considering

☐   ☐ ANSI TS284 - Commercial Vehicle Safety Reports
☐   ☐ ANSI TS285 - Commercial Vehicle Safety and Credentials Information Exchange
☐   ☐ ANSI TS286 - Commercial Vehicle Credentials

Dedicated Short Range Communications

Using   Considering

☐   ☐ IEEE 1609.1 - Standard for Dedicated Short Range Communications (DSRC) Resource Manager
☐   ☐ IEEE 1609-2 - Standard for Dedicated Short Range Communications (DSRC) Application Layer
☐   ☐ IEEE 1609.3 - Standard for IP Interface for Dedicated Short Range Communications (DSRC)
☐   ☐ IEEE 1609.4 - Standard for Dedicated Short Range Communications (DSRC) Medium Access Control (MAC) Layer
☐   ☐ E2213-02 Standard Specification for Telecommunications and Information Exchange Between Roadside and Vehicle Systems - 5 GHz Band Dedicated Short Range Communications (DSRC) Medium Access Control (MAC) and Physical Layer (PHY) Specifications
☐   ☐ SAE J2xxx - Standard for Data Dictionary and Message Sets for Dedicated Short Range Communications (DSRC)
☐   ☐ E2158-01 Standard Specification for Dedicated Short Range Communication (DSRC) Physical Layer using Microwave in the 902 to 928 MHz Band
☐   ☐ ASTM E17.54.00.1 - Standard Guidelines for Archiving ITS-Generated Data
☐   ☐ PS 105-99: Standard Provisional Specification for Dedicated Short Range Communication (DSRC) Data Link Layer

Archived Data User Service (ADUS)

Using   Considering

☐   ☐ ASTM E2259-03 -Standard Guidelines for Archiving
☐   ☐ ASTM E-17.54.02.1 Standard Specifications for Metadata Content for ITS-Generated Data
☐   ☐ ASTM E-17.54.02.2 Standard Specifications for Archiving ITS-Related Traffic Monitoring Data

Location Referencing

Using   Considering

☐   ☐ SAE J2266 - Location Referencing Message Specification

53. What factors helped your agency decide to use ITS standards? Please pick top three factors, check only one item in each column.

	1	2	3	
	☐	☐	☐	Options offered in the standards
	☐	☐	☐	Products employ standards
	☐	☐	☐	Regional architecture document requirements
	☐	☐	☐	Additional funding provided
	☐	☐	☐	Integration opportunities
	☐	☐	☐	Consultant or integrator's recommendation
	☐	☐	☐	My agency's participation on standard committees
	☐	☐	☐	Training and Technical Assistance support provided by US DOT
	☐	☐	☐	Responding to the rule to use ITS Standards
	☐	☐	☐	Compliance testing is readily available

54. Do you feel that using the standards helped with the integration needs for your agency? Please list project name(s) next to each option.

Absolutely

Somewhat

Not exactly

55. If no ITS standards are currently used, what factors will ensure that your agency uses ITS standards? Please pick top three factors, check only one item in each column (if your are using standards, please move to the next question).

    1   2   3

☐ ☐ ☐ We are already committed to using standards when they are complete
☐ ☐ ☐ Vendors provide standard-compliant products
☐ ☐ ☐ Standards being accepted by the ITS community and being used in deployments
☐ ☐ ☐ Training and technical support being provided to my agency
☐ ☐ ☐ Standards are developed that apply to my system
☐ ☐ ☐ Additional funding being provided to use the standards
☐ ☐ ☐ Standards use enables interoperability of systems
☐ ☐ ☐ Other: _____

56. What tool, resource, or support mechanism was/would be most helpful for implementing the standards? Please pick top three, check only one item in each column.

    1   2   3

☐ ☐ ☐ Training courses
☐ ☐ ☐ Published standards provided for free
☐ ☐ ☐ Published standards are easily available
☐ ☐ ☐ Support documents (i.e. procurement and implementation guides) are available
☐ ☐ ☐ Workshops
☐ ☐ ☐ Standards Web site
☐ ☐ ☐ Standards forum
☐ ☐ ☐ Software tools to assist with correctly specifying and procuring the standard
☐ ☐ ☐ E-mail bulletins
☐ ☐ ☐ Resource documents (i.e., user guides and reference notebooks)
☐ ☐ ☐ Testing tools
☐ ☐ ☐ Case studies of other similar projects that used standards successfully
☐ ☐ ☐ Other: _____

57. Who can we contact in your agency regarding ITS standards?

Name:	
Affiliation:	
Phone:	
E-mail:	

58. May FHWA follow up with this agency contact for possible peer networking?

☐ Yes
☐ No

DATA COLLECTION AND ARCHIVING:

59. Does your agency archive any operational data?

☐ Yes, how long have you been archiving? [   ]
☐ No, but we plan to begin archiving data in the next year
☐ No, but we plan to begin archiving data within the next two years
☐ No, but we plan to begin archiving data in the future (five to ten years)
☐ No, we do not plan to begin archiving data

60. How are data archived? (Check all that apply)

☐ Computer database - Store raw data. (e.g., sensor feed)
☐ Computer database - Store processed data (e.g., traffic conditions)

      What is the size of the database? [   ]

☐ Other (please specify) [   ]
☐ Do not archive data

61. Are you aware of the Standard Guide for Archiving and Retrieving Intelligent Transportation System - Generated Data (ASTM E2259-03)?

☐ Yes, are you using it?

      ☐ Yes
      ☐ No

☐ No

62. Please check all the methods your agency uses to make the archived data available.

☐ On-Line (Web)
☐ CD
☐ Paper reports
☐ Other (please specify) [   ]
☐ Do not make archive data available/do not archive data

63. For what portion of your region/transportation network is ITS data archived?

☐ Arterial streets within the central business district
☐ Arterial streets within the metropolitan region
☐ Arterial streets in rural areas within the MPO planning boundary
☐ Congested areas only
☐ Other (please specify): [   ]

Please enter the current information for 2004 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

64. Please check the information that your agency collects/archives in real-time

	Collected in 2002	Archived in 2002	Collect in 2004	Archive in 2004
Traffic volumes	☐	☐	☐	☐
Traffic speeds	☐	☐	☐	☐
Lane occupancy	☐	☐	☐	☐
Vehicle classification	☐	☐	☐	☐
Travel time	☐	☐	☐	☐
Turning movements	☐	☐	☐	☐

DATA COLLECTION AND ARCHIVING (Cont.):

	Collected in 2002	Archived in 2002	Collect in 2004	Archive in 2004
Queues	☐	☐	☐	☐
Phasing/cycle lengths	☐	☐	☐	☐
Road conditions (e.g. wet, icy, etc.)	☐	☐	☐	☐
Emergency vehicle signal preemption	☐	☐	☐	☐
Transit vehicle signal priority	☐	☐	☐	☐
Weather conditions (e.g. snow, fog, rain, etc.)	☐	☐	☐	☐
Incidents	☐	☐	☐	☐

65. Please check the information that your agency collects/archives electronically

	Collected in 2002	Archived in 2002	Collect in 2004	Archive in 2004
Route designations (snow emergency, etc.)	☐	☐	☐	☐
Current work zones	☐	☐	☐	☐
Scheduled work zones	☐	☐	☐	☐
Intermodal (air, rail, water) connections	☐	☐	☐	☐
Emergency/evacuation routes and procedures	☐	☐	☐	☐
Incident status	☐	☐	☐	☐
Traffic video surveillance	☐	☐	☐	☐
Other:			☐	☐
Do not collect/archive information	☐	☐	☐	☐

66. What are the data used for?

	2002 Response	2004 Response
Do not know	☐	☐
Traffic analysis	☐	☐
Construction impact determination	☐	☐
Capital planning/analysis	☐	☐
Operation planning/analysis	☐	☐
Incident detection algorithm development	☐	☐
Roadway impact analysis	☐	☐
Accident prediction models	☐	☐
Dissemination to the public	☐	☐
Traffic Management	☐	☐
Measurement of performance	☐	☐
Safety analysis	☐	☐
Traffic simulation modeling	☐	☐
Travel time prediction	☐	☐
Other:		☐

EMERGENCY PREPAREDNESS:

67. Does your agency participate in a statewide disaster planning program?

☐ Yes
☐ No
☐ Don't know

EVALUATION:

68. The U.S. DOT is interested in networking with evaluators of Intelligent Transportation Systems (ITS) nationwide. Is there a point of contact in your state for ITS evaluations?

☐ Yes. Please provide the name, e-mail, and phone number

[ ]

☐ No
☐ Don't know

69. The U.S. DOT ITS JPO actively collects data on the benefits and costs of ITS implementations and makes this information available at the following URL: http://www.benefitcost.its.dot.gov/. Are you aware of any locally produced and funded evaluations that could be added to this national database?

☐ Yes. Please provide a point of contact (name, phone number and e-mail) or reference (e.g., URL) for the evaluation report.

[ ]

☐ No
☐ Don't know

COST AND BENEFITS:

70. Is your agency willing to share COST information on ITS-related equipment and projects (i.e., capital and O&M cost, project component breakdown, and brief description)? This information will be used to update the ITS JPO sponsored ITS costs database.

☐ Yes. Please provide name, phone number, and e-mail of the cost information contact if different from respondent. This person will be contacted for the cost information at a later date.

[ ]

☐ No

71. Is your agency willing to share BENEFITS information from ITS deployments? This information will be used to update the ITS JPO sponsored ITS benefits database.

☐ Yes. Please provide name and phone number of the benefits information contact if different from respondent. This person will be contacted for the benefits information at a later date.

[ ]

☐ No