# 2004 Statewide Intelligent Transportation System (ITS) Survey

#### **Animal Warning System**

1.	Number of deployed systems:
2.	Please indicate the number of systems with each of the following road classifications:  Freeway or other limited access highway
	Other multi-lane highway (non-limited access) 2-lane highway
3.	What road technologies are used for roadside detection of animal presence? (Check all that apply)  Radar detection of on-road objects  Video  Electric detection fence using microwave or infrared sensors  Radio transmitter collars for animals  Other (please specify):
4.	What technologies are used to communicate with vehicles? (Check all that apply)  Dynamic message sign  Highway advisory radio  In-vehicle  Flashing lights  Other (please specify):
5.	Posthese systems communicate information (e.g., status, activation), in real time, to any agencies/systems?  Yes.  Check all that apply:  Data archiving  Public safety  State police  Local agencies  Traffic management  Incident management  Traveler information /Information service providers  Other states  Other (please specify):  No

6.	Please provide any additional comments you may have regarding your Animal Warning System(s) in the space provided below:
Bi	cycle Warning Systems
7.	Number of deployed systems:
8.	Please indicate the number of systems with each of the following road classifications:
	Freeway or other limited access highway
	Other multi-lane highway (non-limited access)
	2-lane highway
9.	Please indicate the number of systems deployed at the following locations:
	Tunnel
	Road section with restricted visibility Other (please specify):
	Other (please specify).
10.	What technologies are used for roadside detection of bicyclists?
	Manual (activated by bicyclist)
	Automatic (sensor detects bicyclist)
	Other (please specify):
11.	What technologies are used to communicate with vehicles? (Check all that apply)
	Dynamic message sign
	Highway advisory radio
	In-vehicle
	Flashing lights
	Other (please specify):

Ye	se systems communicate information (e.g., status, activation), in real time, to any agencies/systems
	Check all that apply:
	Data archiving
	Public safety
	State police
	Local agencies
	Traffic management
	Incident management
	Traveler information /Information service providers
	Other states
	Other (please specify):
No	)
	provide any additional comments you may have regarding your Bicycle Warning System(s) in the provided below:
	mental Road Hazard Warning Systems
	er of deployed systems:
15. Please	indicate the number of systems with each of the following road classifications:
Fr	eeway or other limited access highway
Ot	her multi-lane highway (non-limited access)
2-	lane highway
16 \M/bat	varanda ana dataatad ku thaga ayatama? /Chagle all that anniy)
	nazards are detected by these systems? (Check all that apply)
Visibil	ty
<b>Visibil</b> i Fo	ty g Snow
<b>Visibil</b> i Fo Sr	g Snow
<b>Visibil</b> i Fo Sr Du	g Snow noke ust/Sand
<b>Visibil</b> i Fo Sr Du W	ity g Snow noke ust/Sand ind
<b>Visibil</b> i Fo Sr Du W	g Snow noke ust/Sand
<b>Visibil</b> i Fo Sr Du W Ot	ity g Snow noke ust/Sand ind
Visibili Fo Sr Du W Of Road (	g Snow noke ust/Sand ind ther (please specify):
Visibili Fo Sr Du W Of Road (	g Snow noke ust/Sand ind ther (please specify): Conditions e on bridge
Visibili Fo Sr Du W Ot Road (	g Snow noke ust/Sand ind ther (please specify): conditions e on bridge y road
Visibili Fo Sr Du W Of Road (	g Snow noke ust/Sand ind ther (please specify): conditions e on bridge y road et road
Visibili Fo Sr Du W Of Road ( Ice W Ol	g Snow noke ust/Sand ind ther (please specify): conditions e on bridge y road et road estructions on road
Visibili Fo Sr Du W Of Road ( Ice W Ol	g Snow noke ust/Sand ind ther (please specify): conditions e on bridge y road et road

17.	What technologies/methods are used to detect hazardous conditions? (Check all that apply)
	Forecasted/Actual Conditions
	National Weather
	Service Weather modeling
	Road Weather Information Systems (RWIS)
	On-Site Sensors
	Closed circuit television (CCTV)
	Infrared
	Particulate
	Wind speed detector
	In-pavement sensor
	Other (please specify):
18.	What information do these systems collect about vehicles for use in assessing the need for a warning? (Check
	all that apply)
	Vehicle speed
	Vehicle classification
	Weight (weigh-in-motion)
	Other (please specify):
19.	What technologies are used to communicate with vehicles? (Check all that apply)
	Dynamic message signs
	Flashing lights
	In-vehicle warning
	Highway advisory radio
	In-pavement roadside edge lights
	Other (please specify):
20.	Do the systems warning include a variable speed limit?
	Yes
	No
21.	What type of message is provided by these systems?
	Tailored information provided to specific vehicle
	Generic warning message provided to all vehicles

Ye. Do the	se systems communicate information (e.g., status, activation), in real time, to any agencies/systems?
10	Check all that apply:
	Data archiving
	Public safety
	State police
	Local agencies
	Traffic management
	Incident management
	Traveler information /Information service providers
	Other states
	Other (please specify):
No	
23 Please	provide any additional comments you may have regarding your Environmental Road Hazard Warning
	provide any additional comments you may have regarding your Environmental Road Hazard Warning n(s) in the space provided below:
Intersec	tion Crossing Detection Systems
meersee	tion dropping beteetion by brems
24. Numbe	er of deployed systems:
25. Please	indicate the number of systems with each of the following road classifications:
Fre	eeway or other limited access highway
Ot	her multi-lane highway (non-limited access)
2-l	ane highway
26. Please	indicate the number of systems that have vehicle detection sensors at the following locations:
	all legs of an intersection
	the major road only
	her (please specify):
	· · · · · · · · · · · · · · · · · · ·
27 \A/ba++	echnologies are used to communicate with vehicles? (Check all that apply)
	ramic message sign
•	namic message sign Ishing lights
	vehicle
	her (please specify):

28.	Do these systems communicate information (e.g., status, activation), in real time, to any agencies/systems?
	Yes.
	Check all that apply:
	Data archiving
	Public safety
	State police
	Local agencies
	Traffic management
	Incident management
	Traveler information /Information service providers
	Other states
	Other (please specify):
	No
29.	Please provide any additional comments you may have regarding your Intersection Crossing Detection
	System(s) in the space provided below:
Pe	destrian Safety Systems
30.	Number of deployed systems:
31	Please indicate the number of systems with each of the following road classifications:
<b>J1</b> .	Freeway or other limited access highway
	Other multi-lane highway (non-limited access)
	2-lane highway
32.	What technologies are used to detect the presence of pedestrians and/or vehicles? (Check all that apply)
	Vehicle detection sensors (e.g., loops, video, acoustic)
	Microwave pedestrian detector
	Infrared pedestrian detector
	Manually operated pedestrian detector
	Other (please specify):
33.	What technologies are used to communicate with pedestrians and/or vehicles? (Check all that apply)
	In-pavement lights illuminate crosswalk
	Illuminated crosswalk signs
	Dynamic message signs
	Flashing lights
	In-vehicle warning
	Other (please specify):

34.	What type of message is provided by these systems?
	Alert to approaching vehicles to pedestrian presence
	Alert to pedestrian of approaching vehicle
	Other (please specify):
35.	Do these systems communicate information (e.g., status, activation), in real time, to any agencies/systems?
	Yes.
	Check all that apply:
	Data archiving
	Public safety
	State police
	Local agencies
	Traffic management
	Incident management
	Traveler information /Information service providers
	Other states
	Other (please specify):
	No
Ra	il-Highway Crossing Safety Systems
37.	Number of deployed systems:
38.	Please indicate the number of systems with each of the following road classifications:  Freeway or other limited access highway  Other multi-lane highway (non-limited access)  2-lane highway
39.	What information is collected by these systems? (Check all that apply)  Train presence
	Train speed
	Detection of vehicle intrusion
	Detection of pedestrian intrusion
	Second train approaching
	Other (please specify):

40.	. What technologies are used to communicate with vehicles? (Check all that apply)		
	Dynamic message sign		
	Highway advisory radio		
	In-vehicle warning Flashing lights		
	Other (please specify):		
41.	Do these systems communicate information (e.g., status, activation), in real time, to any agencies/systems Yes.		
	Check all that apply:		
	Data archiving		
	Public safety		
	State police		
	Local agencies		
	Traffic management		
	Incident management		
	Traveler information /Information service providers		
	Other states		
	Other (please specify):		
	No		
Ro	ad Geometry Warning Systems		
43.	Number of deployed systems:		
44.	Please indicate the number of systems with each of the following road classifications:  Freeway or other limited access highway  Other multi-lane highway (non-limited access)  2-lane highway		
45	What hazards are handled by these systems? (Check all that apply)		
	Truck roll over		
	Curve		
	Downhill		
	All vehicles		
	Curve		
	Downhill		
	Other (please specify):		

46.	What information do these systems collect about vehicles? (Check all that apply)
	Vehicle speed
	Vehicle classification
	Vehicle weight (weigh-in-motion)
	Vehicle height
	Other (please specify):
47.	What information does this system collect about environmental conditions to determine whether a warning is needed?
	Road surface condition
	Other (please specify):
	Other (piease specify).
48.	What technologies are used to communicate with vehicles? (Check all that apply)
	Dynamic message sign
	Flashing lights
	In-vehicle warning
	Highway advisory radio
	In-pavement roadside edge lights
	Other (please specify):
	Generic warning message provided to all vehicles Tailored information provided to specific vehicle
50.	Do these systems communicate information (e.g., status, activation), in real time, to any agencies/systems?
	Yes.
	Check all that apply:
	Data archiving Public safety
	·
	State police  Local agencies
	Traffic management
	Incident management
	Traveler information /Information service providers
	Other states
	Other (please specify):
	No
51.	Please provide any additional comments you may have regarding your Road Geometry Warning System(s) in the space provided below:
	<u> </u>

# **Road Geometry Warning Systems: Cost and Benefits**

	pase. (http://www.benefitcost.its.dot.gov/)
	/es.
	Please provide name and phone number of the cost information contact if different from respondent This person will be contacted for the cost information at a later date.
	No
depl	ur agency willing to share documented BENEFITS or LESSONS LEARNED information from ITS by population will be used to update the ITS JPO sponsored ITS benefits database.
	Please provide name and phone number of the benefits information contact if different from respondent. This person will be contacted for the benefit information at a later date.
I	
Fixed A	anti-icing/Deicing Systems
54. Num	ber of deployed systems:
55. Pleas	e indicate the number of systems with each of the following road classification:
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway
55. Pleas	e indicate the number of systems with each of the following road classification:
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) Other highway  e indicate the number of systems deployed at the following locations:
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) 2-lane highway  e indicate the number of systems deployed at the following locations: Bridge
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) 2-lane highway  e indicate the number of systems deployed at the following locations: Bridge Overpass
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) Other highway  e indicate the number of systems deployed at the following locations: Original Systems deployed at the following locations: Overpass Underpass
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) 2-lane highway  e indicate the number of systems deployed at the following locations: Bridge Overpass Underpass Exit lane
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) Other highway  e indicate the number of systems deployed at the following locations: Original Systems deployed at the following locations: Overpass Underpass
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) 2-lane highway  e indicate the number of systems deployed at the following locations: Bridge Overpass Underpass Exit lane Ramp
55. Pleas	e indicate the number of systems with each of the following road classification: Freeway or other limited access highway Other multi-lane highway (non-limited access) 2-lane highway  e indicate the number of systems deployed at the following locations: Bridge Overpass Underpass Exit lane Ramp Sharp curve

<b>57.</b>	Are these systems automatically activated based upon sensor data?
	No.
	The fixed anti-icing/deicing system is manually activated
	By maintenance personnel
	By traffic operations personnel
	By other personnel (please specify)
	What criteria are used to activate the system? (check all that apply)
	Light precipitation
	Slick pavement (due to water, snow or ice)
	Pavement temperature (current or freeze point)
	Traffic volume
	Time of day
	Other (please specify):
	Yes
	Is activation of the fixed anti-icing/deicing system controlled by a central computer?
	No. A remote processing unit controls system activation.
	Yes. Treatment strategies recommended by the central computer must be approved by
	maintenance or operations personnel prior to activation.
	Yes. The fixed anti-icing/deicing system is fully automated with no human intervention.
	Maintenance or operations personnel simply monitor
	Please specify the typical number and size  ———————————————————————————————————
	Spray nozzles
	Embedded in road surface
	Embedded in bridge deck
	Embedded in median barrier
	Other location (please specify) :
	Environmental Sensor Station(s) measuring the following:
	Air temperature
	Relative humidity
	Barometric pressure
	Precipitation type
	Precipitation rate
	Wind speed
	Wind direction
	Visibility distance
	Cloud cover/solar radiation
	Pavement surface temperature
	Pavement freeze point temperature
	Pavement condition (dry, wet, icy, snow-covered, flooded)
	Pavement snow depth/accumulation Pavement friction coefficient
	Pavement chemical concentration

Other (please specify): \_\_\_\_\_

	Vehicle detectors (for volume, speed, classification, etc.)
	Closed Circuit Television (CCTV) cameras
	Other (please specify):
59.	What types of services are used to warn motorists of system activation? (check all that apply)
	None
	Static signs with flashing beacons
	Dynamic Message Signs (DMS)
	Other (please specify):
60.	What benefits of the fixed anti-icing/deicing system have been observed and/or quantified? (check all that
	apply)
	Improved safety in winter weather
	By predicting or detecting slick pavement
	By reducing winter crash rate
	Other (please specify):
	Improved mobility in winter weather
	By reducing delay and congestion due to winter crashes
	By maintaining higher roadway level of service
	Other (please specify):
	Improved productivity in winter weather
	By reducing road treatment costs
	By reducing the amount of chemical applications
	By extending the life of road infrastructure
	Other (please specify):
	Other (please specify):
	Other (please specify).
61.	Do these systems communicate information (e.g., status, activation), in real time, to any agencies/systems?
	Yes.
	Check all that apply:
	Data archiving
	Public safety
	State police
	Local agencies
	Traffic management
	Incident management
	State DOT
	Maintenance agencies
	Traveler information /Information service providers
	Other (please specify):
	No

System(s) in the space provide		ing your Fixed Anti-Icing/Deicing Systems
Avalanche/Slide Manage	ement Systems	
63. Number of deployed system	ns:	
64. Please indicate the number	of systems with each of the follow	ing road classification.
Freeway or other limited		
Other multi-lane highwa	y (non-limited access)	
2-lane highway		
	r deploying these systems? (check	all that apply)
Evaluation		
Road curvature		
Road grade		
High accident history		
Other (please specify)		_
66. What information is collected	ed by these systems?	
Avalanche/slide detection	on sensors	
	rs on corridors prone to avalanches	
Other (please specify):_		_
67. What technologies are used	to communicate with vehicles?	
Traveler alerts		
Dynamic messa	ige sign	
Highway adviso	ory radio	
In-vehicle warn	ing	
Flashing lights		
Radio contact with main		
Other (please specify):_		_
68. What methods are used to I	imit access to avalanche/slide area	1?
Coupled gate to close ro		
Other (please specify):_		_
• • •		

69.	Do these systems communicate information (e.g., status, activation), in real time, to any agencies/systems
	Yes.
	Check all that apply:
	Data archiving
	Public safety
	State police
	Local agencies
	Traffic management
	Incident management
	State DOT
	Maintenance agencies
	Traveler information /Information service providers
	Other (please specify):
	No
70.	Please provide any additional comments you may have regarding your Automatic Avalanche/Slide Warning
	System(s) in the space provided below:
Ma	nintenance Fleet Management Systems
71.	The system is used to monitor:
	Snowplows
	Street sweepers
	Other maintenance vehicles (please specify) :
72.	The system allows central managers to:
	Monitor vehicle location data using Automated Vehicle Location (AVL) technology
	Monitor vehicle status data
	Plow position (e.g., up/down)
	Chemical application rate Inventory level of chemicals
	Engine diagnostic sensors
	Monitor mobile environmental sensor data
	Air temperature
	Pavement temperature
	Pavement condition (dry, wet, icy, snow-covered)
	Send messages to vehicle drivers using in-vehicle display devices
	Send pre-programmed messages
	Send customized messages
	Send messages to a single plow, group of plows or all plows
	Make scheduling and routing decisions using optimization software
	Share road treatment data with neighboring jurisdictions/agencies
	Other (please specify) :

73.	What communication technologies are used?
	Cell phones
	Pagers
	Mobile data terminals
	Two-way radios - voice only
	Two-way radios - voice and data
	Interoperable with regional service vehicles (transit, maintenance, public safety)
	Other (please specify) :
74.	What benefits of the system have been observed and/or quantified?
	Improved safety
	Please specify how: :
	Improved mobility
	Please specify how): :
	Improved productivity in winter weather
	By reducing road treatment costs
	By identifying the most efficient treatment routes
	By facilitating real-time communication between maintenance managers and vehicle drivers
	By fostering interagency communication
	Other (please specify) :
	Other (please specify) :
	Other (please specify) :
	Other (please specify) :
75.	Other (please specify) :  Please provide any additional comments you may have regarding your Maintenance Fleet Management
75.	•
75.	Please provide any additional comments you may have regarding your Maintenance Fleet Management
<b>75.</b>	Please provide any additional comments you may have regarding your Maintenance Fleet Management
<b>75.</b>	Please provide any additional comments you may have regarding your Maintenance Fleet Management
<b>75</b> .	Please provide any additional comments you may have regarding your Maintenance Fleet Management
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<b>75.</b>	Please provide any additional comments you may have regarding your Maintenance Fleet Management
	Please provide any additional comments you may have regarding your Maintenance Fleet Management
	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:
	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:
	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems
	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)
	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)  Freeway or other limited access highway
	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)  Freeway or other limited access highway  Other multi-lane highway (non-limited access)
	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)  Freeway or other limited access highway  Other multi-lane highway (non-limited access)
 	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)  Freeway or other limited access highway  Other multi-lane highway (non-limited access)
 	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)  Freeway or other limited access highway  Other multi-lane highway (non-limited access)  2-lane highway
 	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)  Freeway or other limited access highway  Other multi-lane highway (non-limited access)  2-lane highway  What type of traffic management center manages traffic for work zones? (Check all that apply)
 	Please provide any additional comments you may have regarding your Maintenance Fleet Management System(s) in the space provided below:  Ork Zone Management Systems  What is the road classification where these systems are located? (Check all that apply)  Freeway or other limited access highway  Other multi-lane highway (non-limited access)  2-lane highway  What type of traffic management center manages traffic for work zones? (Check all that apply)  Portable traffic management center

78.	What types of deployments are these? (Check all that apply)  Temporary  Permanent  Temporary deployments to take over functions of permanent systems that degraded or were made
	inoperable by construction activities  Other (please specify):
79.	What technologies are employed? (Check all that apply) Intrusion alarm Dynamic lane merge system
	Queue detection and alert system
	Travel time system Advanced speed information system (ASIS) Other (please specify) :
	Other (please specify)
80.	What are the reasons for deployment? (Check all that apply)  Reduce crashes
	Improve workers safety
	Reduce congestion
	Provide traveler information to reduce frustration
	Other (please specify) :
81.	What technologies are used to communicate with vehicles? (Check all that apply)
	Portable message sign
	Permanent dynamic message sign
	Highway advisory radio
	In-vehicle warning Flashing lights
	Series of warning signs activated progressively farther from the work site as sensors detect increases in traffic volume
	Temporary speed limits
	Temporary vehicle width, height, or width restrictions Other (please specify):
82.	Which other systems or agencies receive data on work zone status? (Check all that apply)
	Data archiving
	Public safety  Chata malian
	State police
	Local agencies Traffic management
	Traffic management
	Incident management  Traveler information / Information corvice providers
	Traveler information / Information service providers Other states
	Other states Other (please specify) :
	outer (picuse specify)

83.	Please provide any additional comments you may have regarding your Work Zone Management System(s) it the space provided below:
W	ork Zone Management Systems: Cost and Benefits
84.	Is your agency willing to share COST information on ITS-related equipment (i.e., capital and O&M cost, and brief equipment description)? This information will be used to update the ITS JPO sponsored ITS unit cost database. ( <a href="http://www.benefitcost.its.dot.gov/">http://www.benefitcost.its.dot.gov/</a> )
	Yes.
	Please provide name and phone number of the cost information contact if different from respondent This person will be contacted for the cost information at a later date:
	No
85.	Is your agency willing to share documented BENEFITS or LESSONS LEARNED information from ITS deployments? The 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 cost information at a later date:
	No
Sta	ntewide Web Site
86.	Has your agency deployed a Web Site that distributes traveler information?
	Yes.
	Please provide the web address (URL):
87.	What information is disseminated by this web site? (Check all that apply)
	Roadway Information
	Road closure
	Detours
	Alternate routes
	Work zones/construction events
	Weather
	Road surface conditions
	Road restrictions Incidents
	Congestion
	Speeds
	Travel times
	CCTV images
	Other

92. I	Please provide any comments regarding you web site in the space provided below:
91. \	Who is the information service provider for your web site?
	Do not track usage
	Other (e.g., hits, page views):
	Monthly use sessions:
90. \	What is the usage of the web site?
	Other
	State routes
	Multi-lane (not limited access)
89. \	What is the highway coverage of the information provided?  Freeways
	States included:
	Multi-state.
	Statewide
	Describe coverage:
88. \	What is the geographic coverage of the information provided?  Regional.
	Safety campaign messages Other
	AMBER (child abduction) alerts
	Air quality alerts
(	Other information
	Other
	Ferry schedules
	Rail schedules
	Transit adherence to schedules
	Transit schedules
ı	Public Transportation Information
	Other
	Parking space availability
	Parking information
	Trail information
	Local event calendars
	National Parks information
	Restaurants Recreational areas
	Hotel accommodations
	Points of interest
	Directions Special events
	Maps

**Traveler and Tourist Information** 

#### **Statewide 511 System**

## 93. Has your state deployed a 511 traveler information system? No 94. What is the geographic coverage of the information? Regional. Describe coverage: Statewide Multi-state. States included: :\_\_\_\_\_ 95. What is the highway coverage of the information provided? **Freeways** Multi-lane (not limited access) State routes Other 96. What is the content of the 511 system? (Check all that apply) Basic service provided free of charge Traveler and tourist information Roadway information **Public transportation** Optional content (premium service) for specific users provided for a fee Describe optional content: :\_\_\_\_\_ 97. What are the sources of data for your statewide 511 systems? (Check all that apply) Public safety (incident information) State Police Local agencies Traffic management Operations and maintenance Work zones Construction areas Incident management service patrols Private traveler information Cellular phone calls Information service providers **News Media** National Weather Service Weather sensor data Road surface condition detectors Public transportation Inductive loop detectors CCTV Microwave radar detectors

Other (Please specify):\_\_

98. Does the system incorporate a voice recognition service? Yes	
No	
99. Is the system multi-lingual?	
Yes	
No	
100.What are the operating hours?	
24 hours	
Other	
101.Number of calls per month:	
102.Please provide any comments regarding your 511 system in the space provided below:	
Other Means of Disseminating Traveler Information	
103.Please check any other means by which your state disseminates statewide traveler information:	:
Highway advisory radio (HAR)	
Automated telephone (non-511)	
Staffed telephone (non-511)	
Permanent dynamic message signs (DMS)	
Portable dynamic message signs (DMS)	
In-vehicle devices	
E-mail	
Personal data assistants (PDA)	
Interactive kiosks	
Television broadcast - dedicated TV channel	
Television broadcast - media	
Fax	

Other (Please specify):\_\_\_\_\_

Do not disseminate traveler information (go to question 108)

4.W	no is the information service provider for each	media type?
	Highway advisory radio:	
	Automated telephone (non-511):	
	Staffed telephone (non-511):	
	Permanent dynamic message signs:	
	Portable dynamic message signs:	
	In-vehicle devices:	
	E-mail:	
	Personal data assistants:	
	Interactive kiosks:	
	Television broadcast - dedicated TV channel:	
	Television broadcast - media:	
	Fax:	
	Other (Please specify):	

#### 105. How are message sets developed?

Media Type	Data Dictionary	Local Policy	Ad-hoc
Highway advisory radio			
Automated telephone (non-511)			
Staffed telephone (non-511)			
Permanent dynamic message signs			
Portable dynamic message signs			
In-vehicle devices E-mail			
Personal data assistants			
Interactive kiosks			
Television broadcast - dedicated TV channel			
Television broadcast - media			
Fax			
Other (Please specify:)			

#### 106. What is the process for selecting message sets for dissemination?

Media Type	Manual	Semi- Automatic	Fully Automatic	None
Highway advisory radio				
Automated telephone (non-511)				
Staffed telephone (non-511)				
Permanent dynamic message signs				
Portable dynamic message signs				
In-vehicle devices E-mail				
Personal data assistants				
Interactive kiosks				
Television broadcast - dedicated TV channel				
Television broadcast - media				
Fax				
Other (Please specify:)				

#### 107. How are message sets approved for dissemination?

Media Type	Supervisor Approved all Messages	Supervisor Approved Manually Generated Messages	Operator Approved All Messages	Operator Approved Manually Generated Messages	Operator Approved Pre- Programmed Messages	Automated Selection No Approval Required
Highway advisory radio						
Automated telephone (non-511)						
Staffed telephone (non-511)						
Permanent dynamic message signs						
Portable dynamic message signs						
In-vehicle devices E-mail						
Personal data assistants						
Interactive kiosks						
Television broadcast - dedicated TV channel						
Television broadcast - media						
Fax						
Other (Please specify:)						

Other (Please spe							
	ecify:)						
		_					
<del>-</del>	ovide any comments you	ı may have r	egarding you	ur statewide	traveler info	ormation sys	tem(s) in the
space pro	vided below:						
			31 -				
Traveler li	nformation: Cost a	ind Benef	its				
100.1	''''	c= · · · · ·					
	ency willing to share CO ipment description)? Thi				-	=	
	INMENT RESCRINTION IZ I NI	s intormatio					
=				u to upuate	tile 113 JPO	sponsorea n	S unit cost
database	. (http://www.benefitco			u to upuate	the H3 JPO	sponsorea ri	S unit cost
database. Yes.	(http://www.benefitco	st.its.dot.go	<u>v/</u> )	-			
<b>database</b> . Yes. F	. (http://www.benefitco	st.its.dot.go	v/) per of the co	st informatio	on contact if		
<b>database</b> . Yes. F	(http://www.benefitco	st.its.dot.go	v/) per of the co	st informatio	on contact if		
database. Yes. F T	. (http://www.benefitco	st.its.dot.go	v/) per of the co	st informatio	on contact if		
<b>database</b> . Yes. F	. (http://www.benefitco	st.its.dot.go	v/) per of the co	st informatio	on contact if		
database. Yes. F T	. (http://www.benefitco	st.its.dot.go	v/) per of the co	st informatio	on contact if		
database. Yes. F T - No	Please provide name and his person will be contact	phone numbers of the control of the	v/) per of the co- cost informat	st informatic	on contact if	different fror	n respondent 
database. Yes. F No	Please provide name and his person will be contacted the c	phone numbered for the continued by	v/) per of the coccost informat	st informatio ion at a later	on contact if of date:	different fron	m respondent 
database. Yes. Find the second of the second	Please provide name and his person will be contact	phone numbered for the concentrated for the concentrated Blackward in the concentration of th	v/) per of the coccost informat	st informatio ion at a later	on contact if of date:	different fron	m respondent 
database. Yes. To no series your age deployment yes.	Please provide name and his person will be contacted the c	phone numbered for the concentrated Blill be used to	oer of the cocost informates  ENEFITS or Lipoupdate the	st information at a later	on contact if of date:  RNED informations and its before the information in the informati	different fron	m respondent TS pase.
database. Yes. F No  110.Is your ag deployme Yes. F	Please provide name and this person will be contacted the	phone numbered for the content of th	per of the concost informate  ENEFITS or Life oupdate the oper of the be	est information at a later ESSONS LEAR ITS JPO spor	on contact if or date:  RNED information contact	different from I' enefits datab	m respondent TS pase.
database. Yes. F No  110.Is your ag deployme Yes. F	Please provide name and his person will be contacted the c	phone numbered for the content of th	per of the concost informate  ENEFITS or Life oupdate the oper of the be	est information at a later ESSONS LEAR ITS JPO spor	on contact if or date:  RNED information contact	different from I' enefits datab	m respondent TS pase.
database. Yes. For the second of the second	Please provide name and this person will be contacted the	phone numbered for the content of th	per of the concost informate  ENEFITS or Life oupdate the oper of the be	est information at a later ESSONS LEAR ITS JPO spor	on contact if or date:  RNED information contact	different from I' enefits datab	m respondent TS pase.
database. Yes. F No  110.Is your ag deployme Yes. F	Please provide name and this person will be contacted the	phone numbered for the content of th	per of the concost informate  ENEFITS or Life oupdate the oper of the be	est information at a later ESSONS LEAR ITS JPO spor	on contact if or date:  RNED information contact	different from I' enefits datab	m respondent TS pase.

#### **Surface Transportation Weather Systems**

### 111. Under what area of responsibility does your job apply? (Check all that apply) **Traffic Management** Traveler Information Dissemination Maintenance Construction Other (please specify): 112. What weather events and impacts significantly affect the operation and maintenance of roads in your jurisdiction? (Check all that apply) Liquid precipitation (i.e., rain) Frozen precipitation (e.g., snow, sleet, freezing rain) Low visibility due to fog Low visibility due to wind-blown snow Low visibility due to wind-blown dust Low visibility due to smoke High winds Flooding Tropical storms and hurricanes Tornadoes Slick pavement (due to water, snow or ice, black ice) Sand or dust Landslides (mudslides, rockslides) Snow slides (avalanches) Other (please specify):\_\_\_\_\_ None 113. What types of road weather information does your agency use to make operational decisions? (Check all that apply) Atmospheric data (e.g., precipitation, air temperature, visibility distance) Pavement condition data (e.g., wet, freeze point temperature, chemical concentration) Water level data (e.g., stream levels, river forecasts, tide levels) Other (please specify) :\_\_\_

apply)	
۸ir	temperature
	quality
	w point and relative humidity
	rometric pressure
	ecipitation type
	ecipitation rate
	nd speed and gusts
	nd direction
	ibility distance
	oud cover/solar radiation
	vement surface temperature
	vement freezing point
	vement condition (wet, dry, icy, snow-covered, flooded)
	vement snow depth
	vement friction coefficient
_	vement chemical concentration
	osurface conditions (e.g., soil temperature, depth of frost level)
	iter level (in streams, rivers, and lakes near roads)
	her (please specify:
Do	not collect environmental data
=	our agency use Environmental Sensor Stations (ESS) that are field components of a State DOT Road er Information System (RWIS) to gather road weather information?
Weath	er Information System (RWIS) to gather road weather information? . Go to question 127
<b>Weath</b> No Yes	er Information System (RWIS) to gather road weather information? . Go to question 127
Weather No Yes	er Information System (RWIS) to gather road weather information?  Go to question 127  any ESS are in the RWIS?  p with ESS deployment data available?
Weather No Yes  116.How m  117.Is a ma No Yes  118.What o (Check Tra	er Information System (RWIS) to gather road weather information?  Go to question 127  any ESS are in the RWIS?  p with ESS deployment data available?
Weather No Yes 116.How m  117.Is a ma No Yes 118.What of (Check Transfer Tr	er Information System (RWIS) to gather road weather information?  Go to question 127  any ESS are in the RWIS?  p with ESS deployment data available?  Where can the map be obtained?  ther sections within your agency are involved with the operation of or have responsibility for ESS? all that apply)  ffic Management
Weather No Yes 116.How m  117.Is a ma No Yes 118.What o (Check Tra Tra Ma	er Information System (RWIS) to gather road weather information?  Go to question 127  any ESS are in the RWIS?  p with ESS deployment data available?  Where can the map be obtained?  ther sections within your agency are involved with the operation of or have responsibility for ESS? all that apply)  ffic Management veler Information Dissemination wintenance
Weather No Yes 116.How m  117.Is a ma No Yes 118.What o (Check Tra Tra Ma	er Information System (RWIS) to gather road weather information?  Go to question 127  any ESS are in the RWIS?  p with ESS deployment data available?  Where can the map be obtained?  ther sections within your agency are involved with the operation of or have responsibility for ESS? all that apply)  ffic Management veler Information Dissemination sintenance instruction
Weather No Yes 116.How m  117.Is a ma No Yes 118.What o (Check Tra Ma Co No No	er Information System (RWIS) to gather road weather information?  Go to question 127  any ESS are in the RWIS?  p with ESS deployment data available?  Where can the map be obtained?  ther sections within your agency are involved with the operation of or have responsibility for ESS? all that apply)  ffic Management veler Information Dissemination sintenance instruction

119. Select the entity or entities with which your agency shares ESS observational data. (Check all that apply)
NOAA's Forecast System Laboratory to the Meteorological Assimilation Data Ingest System (MADIS)
National Weather Service through local forecast offices
Private meteorological services
Other (please specify) :
Do not share ESS observational data
120.If your agency DOES NOT share ESS observational data, what is/are the barrier(s)? (Check all that apply)
Cost
Proprietary restraints from private meteorological service providers
Never considered
Other (please specify) :
121.Who OWNS the ESS that you have access to?
My agency only
My agency and other public or private agencies (please specify):
Other public or private agencies (please specify):
122. Who OPERATES the ESS that you have access to?
My agency only
My agency and other public or private agencies (please specify):
Other public or private agencies (please specify) :
· · · · · · · · · · · · · · · · · · ·
122 Who MAINTAINS the ESS that you have access to?
123. Who MAINTAINS the ESS that you have access to?
My agency only
My agency and other public or private agencies (please specify):
Other public or private agencies (please specify) :
124.Please identify the private vendor for ESS data collection, RWIS network operation, or RWIS network
maintenance.
ESS data collection:
RWIS network operation:
RWIS network maintenance:
Do not use private vendors
Other (please specify) :
125.During what periods are your ESS operational? (Check all that apply)
Year-round
Winter
Spring
Summer
Fall
Other (please specify) :

126.Please indicate which parameter(s) your ESS measures, and the source of any siting or performance standards that have been specified for each type of sensors (e.g., agency vendor, other- please specify). For siting and performance standards, please cite a URL or publicly available document (if available) to which we may refer.

Measure	Siting Standards	Performance Standards
Air quality		
Atmospheric pressure		
Cloud height		
Lightning		
Pavement condition (wet, dry, icy, snow-covered, flooded)		
Pavement friction coefficient		
Pavement chemical concentration		
Precipitation occurrence		
Precipitation type discrimination (rain)		
Precipitation type discrimination (freezing vs. non-freezing)		
Precipitation type discrimination (sleet-specific)		
Precipitation type discrimination (snow specific)		
Precipitation rate		
Precipitation, amount of accumulation		
Relative humidity		
Snowfall		
Snow depth		
Sky condition		
Temperature (ambient air)		
Temperature (dew point)		
Temperature (pavement freeze point)		
Temperature (pavement surface)		
Temperature (subsurface)		
Visibility		
Wind direction		
Wind speed		

127.What are the	barrier(s) to obtaining or implementing Environmental Sensor Stations? (Check all that apply)
No percei	ved need
Cost	
Use other	source(s)
Other (ple	ease specify) :
No barrie	rs

apply) Agricultural monitoring networks Air quality sensing stations Airport monitoring stations (e.g., ASOS stations, AWOS stations) Closed Circuit Television (CCTV) cameras Mobile environmental sensor On maintenance vehicles with Automated Vehicle Location (AVL) technology On other vehicles (please specify type):  What data are collected by the mobile environmental sensors? (Check all that apply) Air temperature Pavement surface temperature Pavement freeze point temperature Pavement friction coefficient Other (please specify):  State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Air quality sensing stations Airport monitoring stations (e.g., ASOS stations, AWOS stations) Closed Circuit Television (CCTV) cameras Mobile environmental sensor On maintenance vehicles with Automated Vehicle Location (AVL) technology On other vehicles (please specify type):  What data are collected by the mobile environmental sensors? (Check all that apply) Air temperature Pavement surface temperature Pavement freeze point temperature Pavement friction (wet, dry, icy, snow-covered, flooded) Pavement friction coefficient Other (please specify): State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Airport monitoring stations (e.g., ASOS stations, AWOS stations)  Closed Circuit Television (CCTV) cameras  Mobile environmental sensor  On maintenance vehicles with Automated Vehicle Location (AVL) technology  On other vehicles (please specify type):  What data are collected by the mobile environmental sensors? (Check all that apply)  Air temperature  Pavement surface temperature  Pavement freeze point temperature  Pavement friction coefficient  Other (please specify):  State-owned mesoscale environmental monitoring network (mesonet)  Other system state owned  Other mesonet (e.g., university):  Other monitoring system:  Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply)  National Weather Service (NWS) (e.g., general weather forecasts)  Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Closed Circuit Television (CCTV) cameras Mobile environmental sensor On maintenance vehicles with Automated Vehicle Location (AVL) technology On other vehicles (please specify type):  What data are collected by the mobile environmental sensors? (Check all that apply) Air temperature Pavement surface temperature Pavement freeze point temperature Pavement condition (wet, dry, icy, snow-covered, flooded) Pavement friction coefficient Other (please specify): State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Mobile environmental sensor  On maintenance vehicles with Automated Vehicle Location (AVL) technology On other vehicles (please specify type):  What data are collected by the mobile environmental sensors? (Check all that apply) Air temperature Pavement surface temperature Pavement freeze point temperature Pavement condition (wet, dry, icy, snow-covered, flooded) Pavement friction coefficient Other (please specify):  State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
On maintenance vehicles with Automated Vehicle Location (AVL) technology On other vehicles (please specify type):  What data are collected by the mobile environmental sensors? (Check all that apply)  Air temperature Pavement surface temperature Pavement freeze point temperature Pavement condition (wet, dry, icy, snow-covered, flooded) Pavement friction coefficient Other (please specify):  State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
On other vehicles (please specify type):  What data are collected by the mobile environmental sensors? (Check all that apply)  Air temperature  Pavement surface temperature  Pavement freeze point temperature  Pavement condition (wet, dry, icy, snow-covered, flooded)  Pavement friction coefficient  Other (please specify):  State-owned mesoscale environmental monitoring network (mesonet)  Other system state owned  Other mesonet (e.g., university):  Other monitoring system:  Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply)  National Weather Service (NWS) (e.g., general weather forecasts)  Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Air temperature Pavement surface temperature Pavement freeze point temperature Pavement condition (wet, dry, icy, snow-covered, flooded) Pavement friction coefficient Other (please specify): State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check at that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Pavement freeze point temperature Pavement condition (wet, dry, icy, snow-covered, flooded) Pavement friction coefficient Other (please specify): State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check athat apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Pavement condition (wet, dry, icy, snow-covered, flooded) Pavement friction coefficient Other (please specify): State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check athat apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Pavement friction coefficient Other (please specify): State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Other (please specify): State-owned mesoscale environmental monitoring network (mesonet) Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply) National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
State-owned mesoscale environmental monitoring network (mesonet)  Other system state owned  Other mesonet (e.g., university):  Other monitoring system:  Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply)  National Weather Service (NWS) (e.g., general weather forecasts)  Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Other system state owned Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply)  National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Other mesonet (e.g., university): Other monitoring system: Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply)  National Weather Service (NWS) (e.g., general weather forecasts) Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Other monitoring system:  Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply)  National Weather Service (NWS) (e.g., general weather forecasts)  Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Do not gather road weather information  129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply)  National Weather Service (NWS) (e.g., general weather forecasts)  Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
129.What source(s) of weather information does your agency use to gather road weather information? (Check a that apply)  National Weather Service (NWS) (e.g., general weather forecasts)  Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
that apply)  National Weather Service (NWS) (e.g., general weather forecasts)  Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data)  U.S. Geological Survey (USGS) (e.g., stream gauge data)	
Federal Aviation Administration (FAA) (e.g., ASOS/AWOS data) U.S. Geological Survey (USGS) (e.g., stream gauge data)	ı <b>II</b>
U.S. Geological Survey (USGS) (e.g., stream gauge data)	
National Hurricane Center (NHC) (e.g., storm track and landfall forecasts)	
Department of Defense	
Reports from field personnel	
Private weather information service:	
Are weather products tailored to your operational requirements? (e.g., route-specific) Yes	
No	
Other (please specify) :	

No		
Yes.		
Please list them:		

# 131. Which personnel in your agency use road weather information to make operational decisions? (Check all that apply)

Traffic management personnel

Traveler information dissemination personnel

Winter maintenance personnel (for snow and ice control activities)

Summer maintenance personnel (for weed control, patching, etc.)

Construction personnel (for paving operations, concrete pouring, etc.)

Do not use road weather information to make operational decisions

Other (please specify):

#### 132. Does your agency SHARE road weather information with other agencies/entities?

No

Yes

Please specify the other agencies/entities (Check all that apply)

**Emergency management** 

Public safety (e.g., law enforcement, highway patrol)

**Transit operators** 

Information service providers

Commercial vehicle operators

School districts

Traffic management centers

Maintenance crews

Other (please specify):

#### 133. Does your agency RECEIVE road weather information from non-weather agencies/entities?

No

Yes

Please specify the other agencies/entities (Check all that apply)

**Emergency management** 

Public safety (e.g., law enforcement, highway patrol)

**Transit operators** 

Information service providers

Commercial vehicle operators

School districts

Traffic management centers

Maintenance crews

Other (please specify):\_\_\_\_\_\_

4.Dues you No	ur agency provide road weather information to the traveling public?
Yes	
	Please specify the type of dissemination system(s) (Check all that apply)
	Roadside warning devices (e.g., DMS, HAR)
	In-vehicle devices
	Interactive kiosks
	Personal communication devices (e.g., PDAs, pagers)
	Dedicated television channel Fax
	E-mail
	Internet/web site. What is the URL?
	511 Telephone system
	Telephone number other than 511.
	What is/are the number(s)?
	Does the telephone system use interactive voice response technology?
	Yes
	No
	Other dissemination system (please specify):
	Please specify the type of road weather information disseminated to the traveling public. (Check
	that apply)
	Atmospheric observations (e.g., precipitation and air temperature from ESS)
	Route-specific pavement condition data (e.g., dry, wet, plowed, flooded)
	Video images of selected routes
	Weather-related travel restrictions (e.g., tire chain requirements, closed routes)
	General weather forecast data (e.g., National Weather Service warnings)
	Route-specific weather forecast data
	Other (please specify) :
5.Is weath network	er information provided in a format that can be integrated with existing GIS and overlaid on a r
Yes	;
No	
NO	
<b>.</b> .	
6.Are any studies?	or all-weather data archived in a way that would permit their re-use in forensics or validation
Yes	
	How have archived weather data been used by your agency?
No	

	DOT is interested in networking with evaluators of Intelligent Transportation Systems (ITS) ide. 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
	DOT ITS JPO actively collects data on the benefits and costs of ITS implementations and makes this tion available at the following URL: http://www.benefitcost.its.dot.gov/. Are you aware of any
locally p Yes	roduced and funded evaluations that could be added to this national database?
	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
	st, project component breakdown, and brief description)? This information will be used to update PO sponsored ITS costs database.  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	
=	gency willing to share BENEFITS information from ITS deployments? This information will be used to the ITS JPO sponsored ITS benefits database.
	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	