

Tracking the Deployment of the Integrated Metropolitan ITS Infrastructure in New York, Northern New Jersey, Southwestern Connecticut

FY99 Results

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Part 1 - Background and Purpose

In January 1996, Secretary Peña set a goal of deploying the integrated metropolitan Intelligent Transportation System (ITS) infrastructure in 75¹ of the nation's largest metropolitan areas by 2006:

*"I'm setting a national goal: to build an intelligent transportation infrastructure across the United States to save time and lives, and improve the quality of life for Americans. I believe that what we do, we must measure . . . Let us set a very tangible target that will focus our attention . . . I want 75 of our largest metropolitan areas outfitted with a complete intelligent transportation infrastructure in 10 years."*²

-- Secretary Peña, 1996

In 1997, the U.S. Department of Transportation initiated an effort to track progress toward fulfillment of this goal by conducting a survey of deployment in the nation's largest metropolitan areas. Traditionally, the product of a transportation infrastructure investment consists of a fixed asset such as a highway, bridge, or public transportation vehicle developed, constructed, or purchased by a single agency. Tracking the level of deployment for such traditional fixed assets can be accomplished by simply counting the number of such assets deployed. Measuring the deployment of the metropolitan ITS infrastructure is more complex because it consists of a set of systems, often deployed by multiple agencies, and integrated through a combination of complex institutional and technical arrangements. In brief, it is often difficult to simply count the number of systems deployed without first devising a measurement approach that captures the essential features of such systems in a consistent fashion across many deployment environments.

In order to track progress toward fulfillment of the Secretary's goal for deployment, the U.S. Department of Transportation ITS Joint Program Office developed the metropolitan ITS deployment tracking methodology. This methodology tracks deployment of the nine components that make up the Metropolitan ITS infrastructure: Freeway Management; Incident Management; Arterial Management; Emergency Management; Transit Management; Electronic Toll Collection; Electronic Fare Payment; Highway-Rail Intersections; and Regional Multimodal Traveler Information. Through a set of indicators tied to the major functions of each component, the level of deployment is tracked for the nation's largest metropolitan areas. In addition, the integration links between agencies operating the infrastructure are also tracked. The details of

¹ Since Secretary Peña's speech, the number of metropolitan areas that DOT will measure has been increased from 75 to 78. However, to maintain reporting consistency across the 10-year goal period, this report considers only the original 75 metropolitan areas.

² Excerpt of a speech delivered by Secretary of Transportation Peña at the Transportation Research Board in Washington, DC on January 10, 1996.

the methodology are explained elsewhere.³

During the summer and fall of 1999, the U.S. DOT undertook a new data collection effort for the purpose of examining ITS deployment progress in the nation's largest metropolitan areas. The New York, Northern New Jersey, Southwestern Connecticut metropolitan area was among the areas surveyed in 1997 and again in 1999. This report presents the results of the 1999 survey efforts and compares the results of the 1997 survey against those observed in 1999. The overall response rate for the surveys administered in the New York, Northern New Jersey, Southwestern Connecticut region was 63% in 1997 and 68% in 1999.

Part 2 contains a summary of the 1999 survey results, and Part 3 provides a comparison of 1999 survey results and the 1997 survey results.

The report also contains a set of appendices containing a map of the survey area, the list of local contacts surveyed along with a status of their response to the survey and a summary of the data collected from the surveys.

Agencies are encouraged to review the data presented in this report for completeness and accuracy and to direct any comments or corrections to the data provided to the contacts listed below:

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³ Additional Resources: "Measuring ITS Deployment and Integration" (Electronic Document Number: 4372). U.S. Department of Transportation, Joint Program Office for Intelligent Transportation Systems, 400 Seventh St., SW (HVH-1), Washington, DC 20590, Phone: 202-366-9536, Fax: 202-366-3302, Web: <http://www.its.dot.gov>.

Part 2 - Summary 1999 Survey Results

Deployment indicators have been developed for two broad areas of interest: (1) the individual components, including their basic functions and characteristics and (2) integration of components, including how these components work together to provide coordinated regional service. As mentioned earlier, these indicators are expressed as percentages of the possible deployment opportunity and not necessarily what should be deployed based on local needs. Requirements for deployment and integration between each component will vary based on local conditions and cannot be assigned without extensive coordination with individual metropolitan areas.

The following two figures portray the surrogate indicators for each of the nine components in New York, Northern New Jersey, Southwestern Connecticut and the same indicators at the national level. These are judged to be the single best representative of a component and are being used as summary indicator for component. The summary indicators are expressed as a percentage; however, because deployment goals have yet to be established, these indicators should not be read as a comparison of what is deployed versus eventual deployment goals. Instead, they only reflect what is deployed compared to full market saturation (i.e., opportunity for deployment).

Each component indicator was selected to reflect a critical function of the individual components. For example, in the case of Freeway Management, three basic functions were defined: surveillance, traffic control, and information display. The three indicators developed to reflect these functions are: percentage of freeway centerline miles under electronic surveillance (surveillance function), percentage of freeway entrance ramps managed by ramp meters (traffic control function), and percentage of freeway centerline miles covered by permanent VMS, HAR, or in-vehicle signing (information display function). The indicators are surrogates that do not necessarily reflect the full breadth of metropolitan ITS deployment activity.

A critical aspect of ITS that provides much of its capability is the integration of individual components to form a unified regional traffic control system. Individual ITS components routinely collect information that is used for purposes internal to that component. For example, the Arterial Management component monitors arterial conditions to revise signal timing and to convey these conditions to travelers through such technologies as variable message signs and highway advisory radio. Other ITS components can make use of this information in formulating their control strategies. For example, Transit Management may alter routes and schedules based on real-time information on arterial traffic conditions, and Freeway Management may alter ramp metering or diversion recommendations based on the same information.

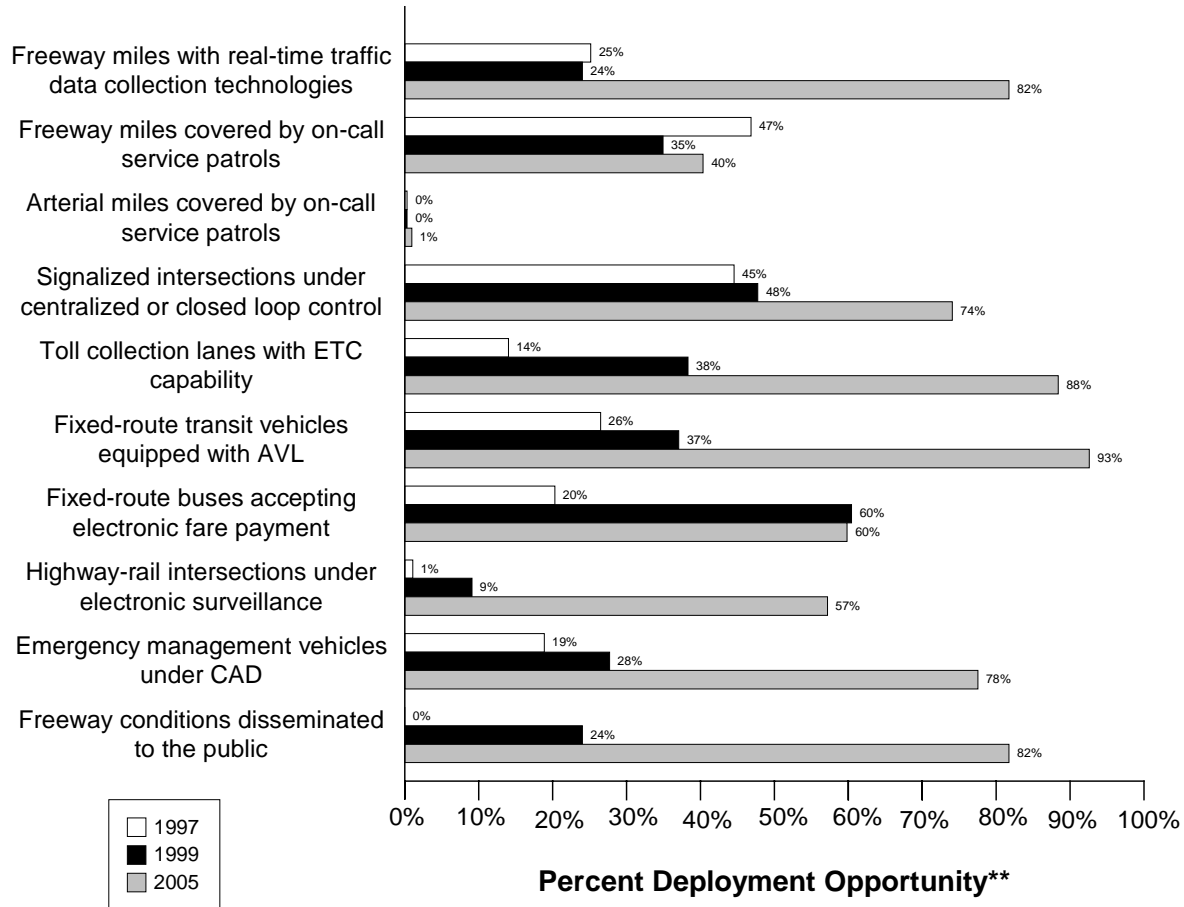
As with the component indicators, definitions for inter- and intra-component integration were developed for each component, and indicators, derived from these definitions, were produced for each component. A total of 34 individual integration indicators was specified and is portrayed in the third figure which follows. Each integration indicator has been assigned a number and an

origin/destination path from one ITS infrastructure component to another. For example, the integration of information from the Freeway Management component to the Regional Multimodal Traveler Information component is identified by the number “10.”

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

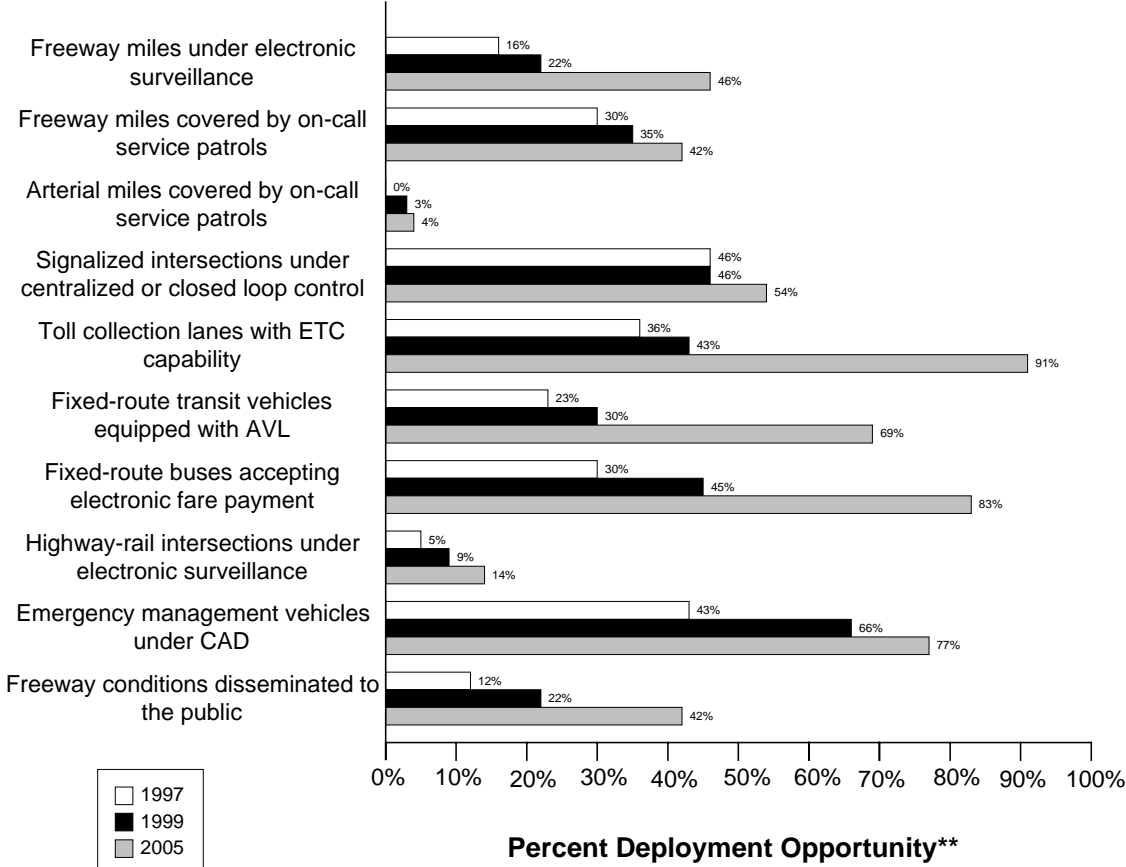
Summary Indicators*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.

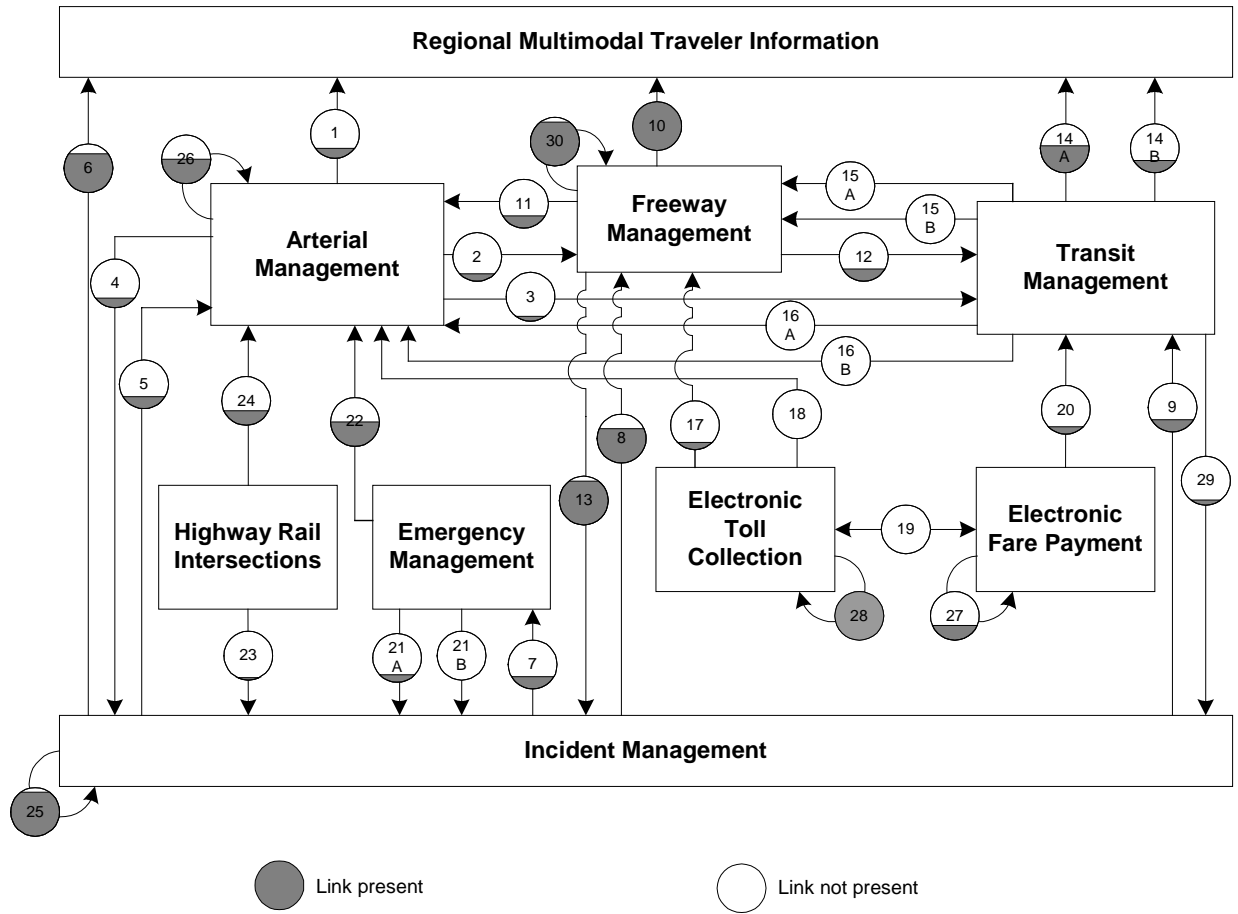
** Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

National Summary Indicators*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity
 ** Deployment opportunity reflects potential totals that do not necessarily reflect actual need

New York, Northern New Jersey, Southwestern Connecticut Integration Links



Note: Shading indicates the value of the link. For example a circle half shaded equals 50%

Link	Description	Link	Description
1	Arterial Management to Regional Multimodal Traveler Information	2	Arterial Management to Freeway Management
3	Arterial Management to Transit Management	4	Arterial Management to Incident Management
5	Incident Management to Arterial Management	6	Incident Management to Regional Multimodal Traveler Information
7	Incident Management to Emergency Management.	8	Incident Management to Freeway Management
9	Incident Management to Transit Management	10	Freeway Management to Regional Multimodal Traveler Information
11	Freeway Management to Arterial Management	12	Freeway Management to Transit Management

Link	Description	Link	Description
13	Freeway Management to Incident Management	14a	Transit Management to Regional Multimodal Traveler Information (static route information)
		14b	Transit Management to Regional Multimodal Traveler Information (schedule adherence information)
15a	Transit Management to Freeway Management	16a	Transit Management to Arterial Management
15b	Transit Management to Freeway Management (transit vehicle probes)	16b	Transit Management to Arterial Management (transit vehicle probes)
17	Electronic Toll Collection to Freeway Management (ETC equipped probes)	18	Electronic Toll Collection to Arterial Management (ETC equipped probes)
19	Electronic Fare Payment and Electronic Toll Collection	20	Electronic Fare Payment to Transit Management
21a	Emergency Management to Incident Management (incident notification)	22	Emergency Management to Arterial Management
21b	Emergency Management to Incident Management (incident clearance)		
23	Highway-rail intersections to Incident Management (crossing status)	24	Highway-rail intersections to Arterial Management (crossing status)
25	Incident Management intra component	26	Arterial Management intra component
27	Electronic Fare Payment intra component.	28	Electronic Toll Collection intra component
29	Transit Management to Incident Management (incident reporting)	30	Freeway Management intra component

Part 3 - Detailed 1999 Survey Results

The following figures and tables summarize the complete set of component and integration indicators developed for the New York, Northern New Jersey, Southwestern Connecticut metropolitan area. The figures summarizing the component indicators consist of a bar chart portraying the deployment levels for 1997, 1999, and 2005 accompanied by detailed tables of the data used to calculate each component indicator value (*Num* stands for numerator and *Den* stands for denominator; blank space indicates that no response was received.)

Example: Calculating Component Indicators for Freeway Management

Consider a metropolitan area with 100 miles of freeway and 25 freeway entrance ramps. The area has no ramp meters, 10 freeway miles for which traffic data are collected electronically, and 5 freeway miles, which are covered by highway advisory radio.

The component indicator for electronic surveillance is calculated as $(10/100)$ or 10%.

The component indicator for ramp meter control is calculated as $(0/25)$ or 0%.

The component indicator for HAR coverage is calculated as $(5/100)$ or 5%.

The summary indicator for the metropolitan area is calculated as $(10\%+0\%+5\%)/3 = 5\%$.

The figures summarizing the integration indicators consist of a diagram for each of the nine metropolitan ITS components portraying the integration level for 1999 (*italic*) and 2005 (**bold**), accompanied by tables providing an explanation of the data and calculations performed to develop each integration indicator value for 1999 and 2005. Each diagram portrays the proportion of agencies providing information to a component (e.g., the flow of incident information from Incident Management to Freeway Management) and the proportion of agencies providing information from one component to other components (e.g., the flow of freeway travel condition information from Freeway Management to Arterial Management).

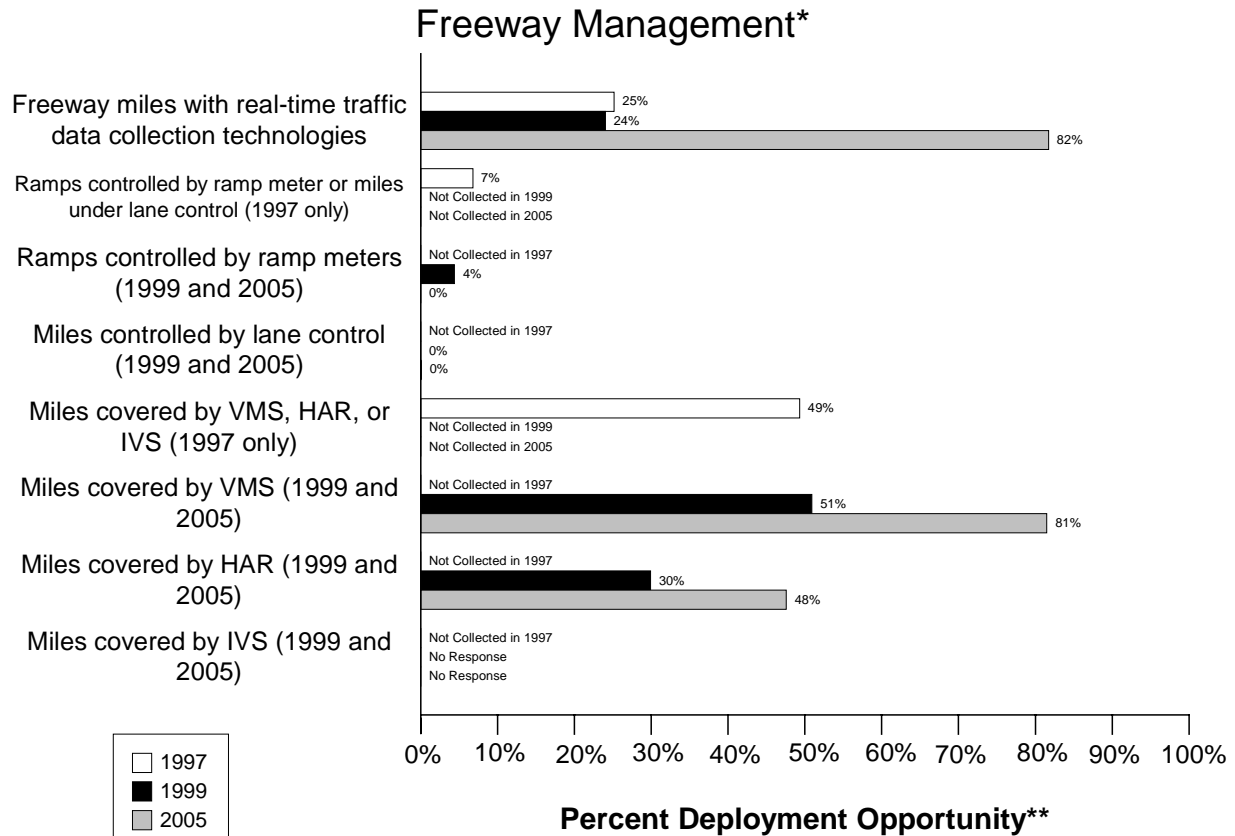
Example: Calculating Integration between Arterial Management and Regional Multimodal Traveler Information

Consider a metropolitan area with three arterial management agencies. One out of three provides information to the public using a Regional Multimodal Traveler Information Media (e.g., internet, kiosk, pager, etc...). The integration indicator is $1/3$ or 33%.

Freeway Management Component Indicators

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.

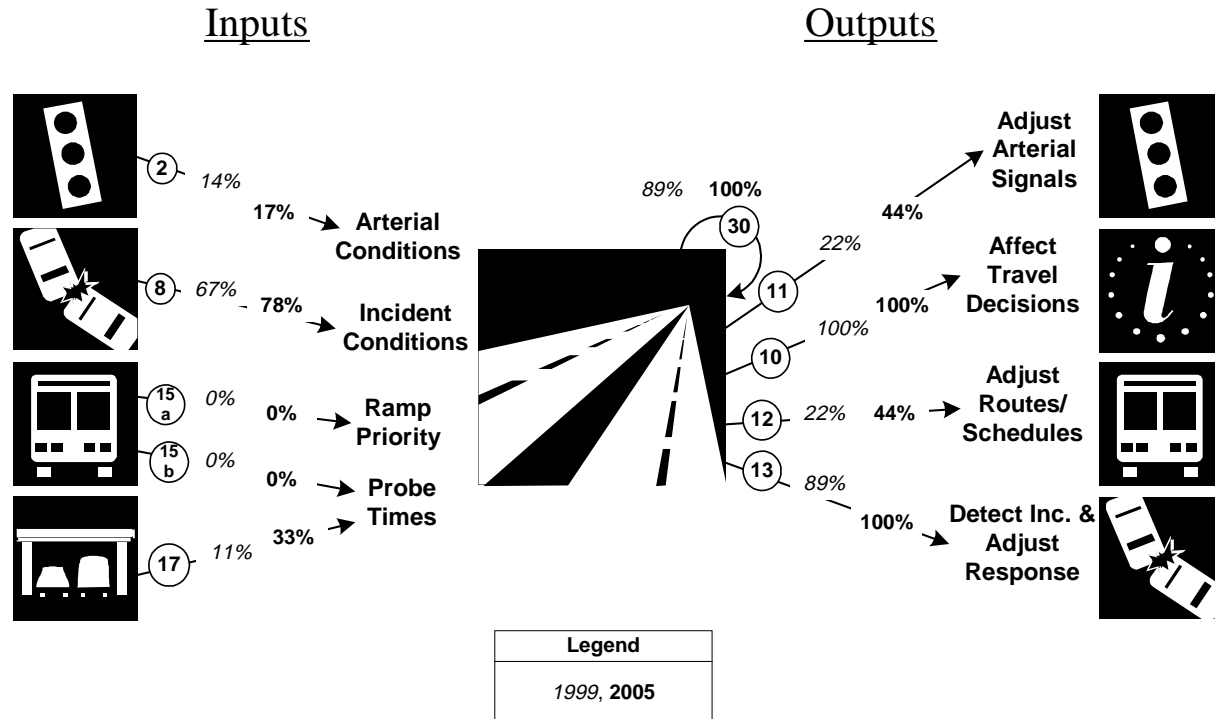
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Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Freeway centerline miles are under electronic surveillance for monitoring traffic flow	323.58	1286	25%	309	1286	24%	1051	1286	82%
Freeway entrance ramps are controlled by ramp meters or miles under lane control	126	1850	7%						

Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Freeway entrance ramps are controlled by ramp meters				81	1850	4%	0	1850	0%
Freeway centerline miles will be controlled by lane control				0	1286	0%	1	1286	0%
Freeway miles are covered by VMS, HAR, or IVS	634.28	1286	49%						
Freeway miles are covered by VMS				655	1286	51%	1048	1286	81%
Freeway miles are covered by HAR				385	1286	30%	612	1286	48%
Freeway miles are covered by IVS					1286			1286	

Freeway Management Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut Freeway Management Integration*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
2. Arterial Management agencies sending information to Freeway Management	(5/ 35) 14%	(6/ 35) 17%
8. Incident Management agencies sending information to Freeway Management	(6/ 9) 67%	(7/ 9) 78%
15a. Transit management agencies with vehicles equipped with ramp meter priority	(0/ 17) 0%	(0/ 17) 0%
15b. Transit Management agencies with vehicles equipped as probes	(0/ 17) 0%	(0/ 17) 0%
17. Freeway Management agencies receiving freeway conditions from vehicle probes	(1/ 9) 11%	(3/ 9) 33%
30. Freeway Management agencies sending information to another Freeway Management agency	(8/ 9) 89%	(9/ 9) 100%
11. Freeway Management agencies sending information to Arterial Management	(2/ 9) 22%	(4/ 9) 44%

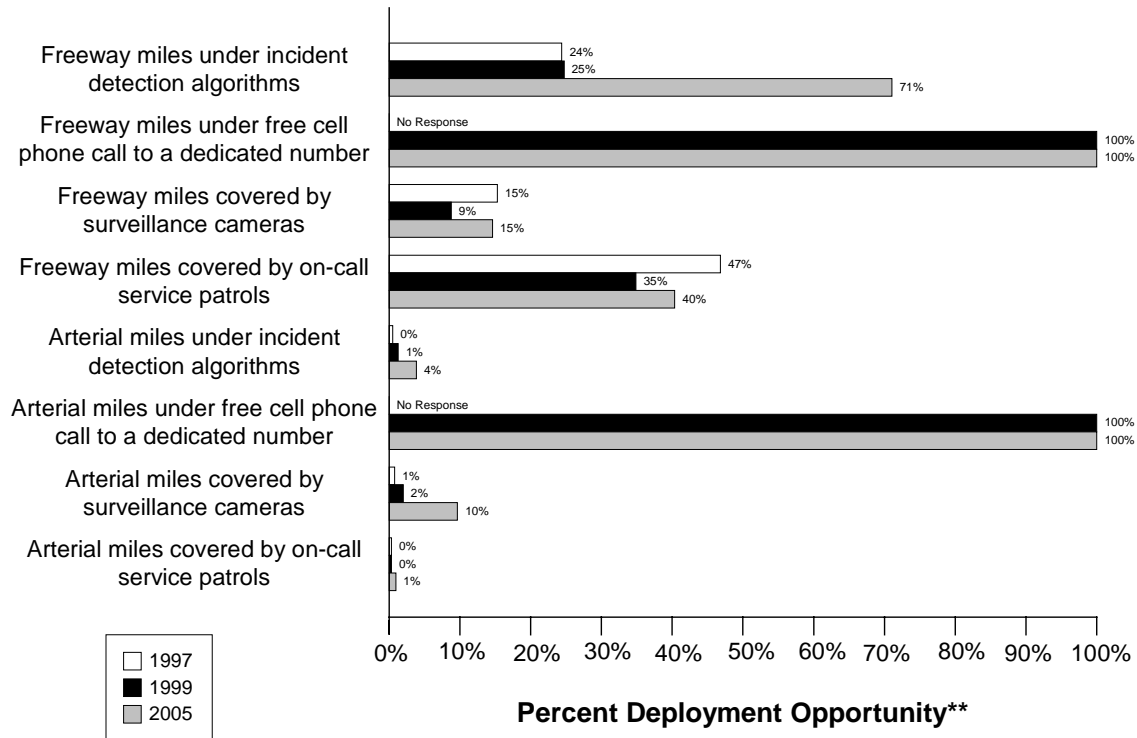
Link Description	1999	2005
10. Freeway Management agencies disseminating freeway conditions to the public	(9/ 9) 100%	(9/ 9) 100%
12. Freeway Management agencies sending freeway conditions to Transit Management	(2/ 9) 22%	(4/ 9) 44%
13. Freeway Management agencies sending freeway conditions to Incident Management	(8/ 9) 89%	(9/ 9) 100%

Incident Management Component Indicators

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

Freeway and Arterial Incident Management*



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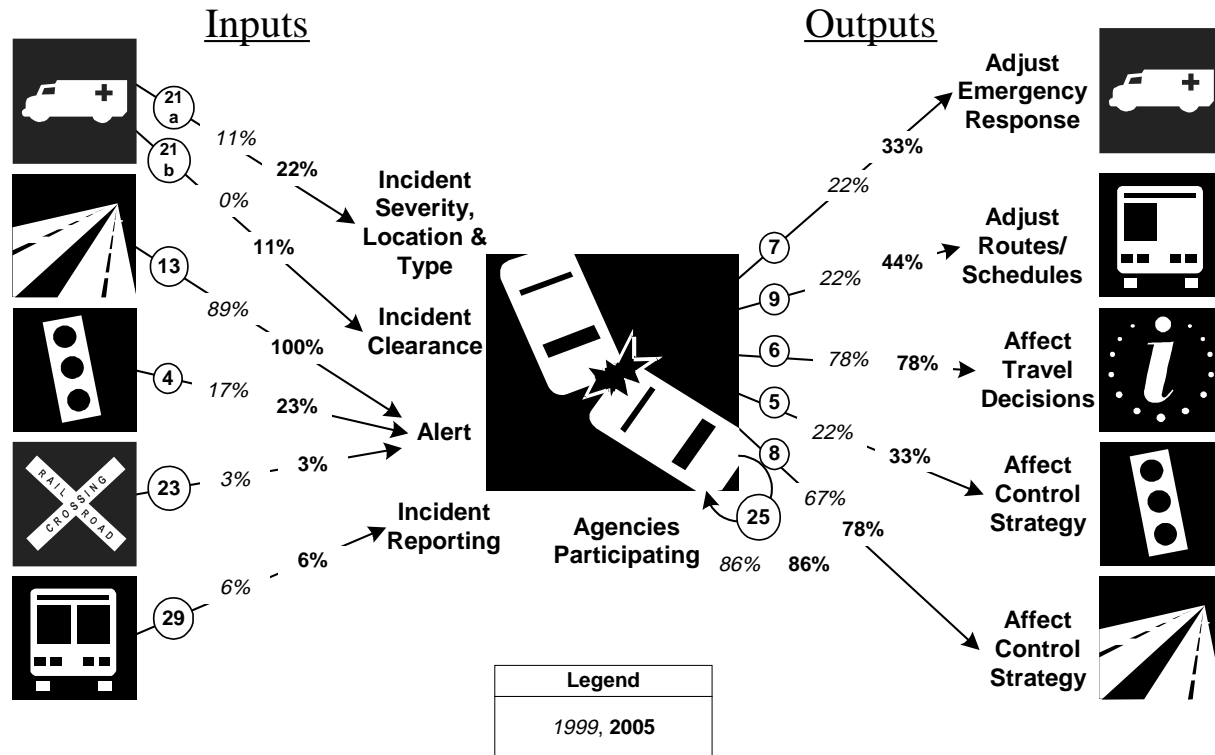
Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Freeway miles are covered by incident detection algorithms	314	1286	24%	318	1286	25%	914	1286	71%
Freeway miles are covered by free cellular phone calls to a dedicated number		1286		1286	1286	100%	1286	1286	100%
Freeway miles are covered by surveillance cameras.	196. 78	1286	15%	113	1286	9%	188	1286	15%

Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Freeway miles are covered by on-call publicly-sponsored service patrol or towing services.	602	1286	47%	449	1286	35%	519	1286	40%
Arterial miles are covered by incident detection algorithms	36	7232	0%	93	7232	1%	279	7232	4%
Arterial miles are covered by free cellular phone calls to a dedicated number		7232		7232	7232	100%	7232	7232	100%
Arterial miles are covered by surveillance cameras	57	7232	1%	145	7232	2%	700	7232	10%
Arterial miles are covered by on-call publicly-sponsored service patrol or towing services	24	7232	0%	25	7232	0%	70	7232	1%

Incident Management Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut

Incident Management Integration*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
21a. Incident management agencies receiving incident severity from Emergency Management	(1 / 9) 11%	(2 / 9) 22%
21b. Incident management agencies receiving incident clearance activities from Emergency Management	(0 / 9) 0%	(1 / 9) 11%
13. Freeway Management agencies sending freeway conditions to Incident Management	(8 / 9) 89%	(9 / 9) 100%
4. Arterial Management agencies sending arterial conditions to Incident Management	(6 / 35) 17%	(8 / 35) 23%
23. Arterial Management agencies receive information on highway-rail intersection crossing blockages for the purpose of managing incident response	(1 / 35) 3%	(1 / 35) 3%
29. Transit Management agencies report traffic incidents as part of an organized regional incident management program	(1 / 17) 6%	(1 / 17) 6%

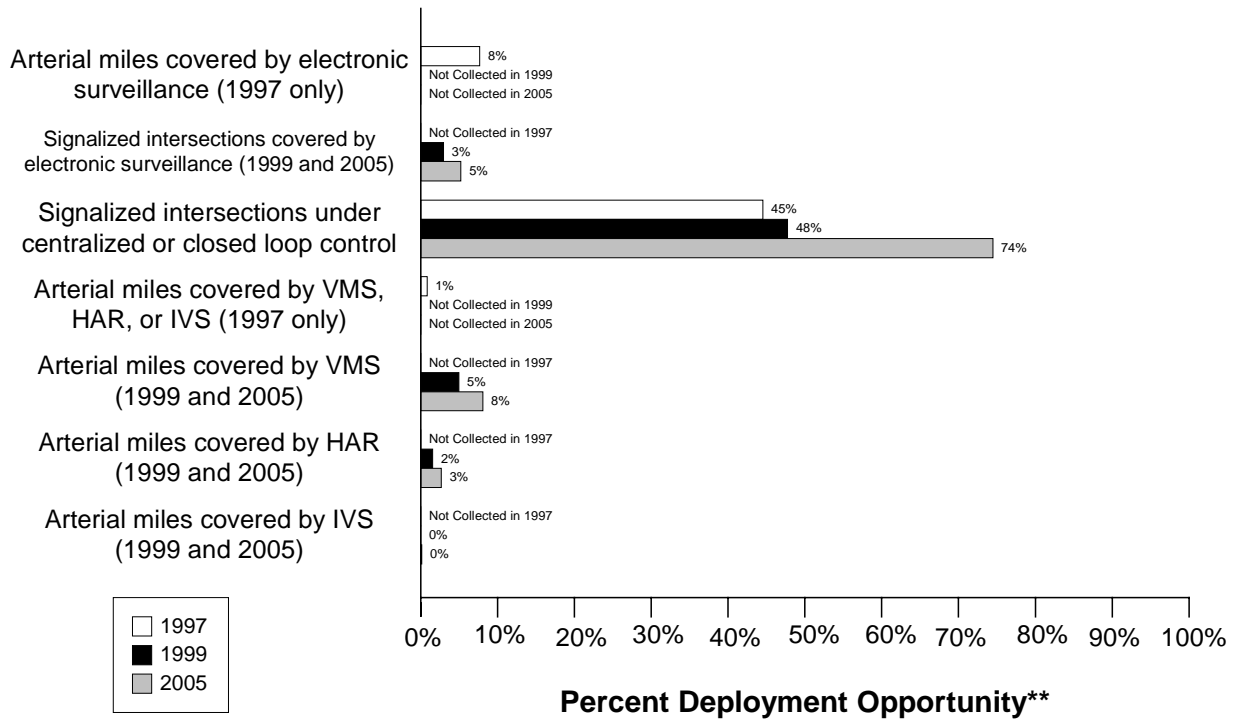
Link Description	1999	2005
7. Incident management agencies transfer information describing incident severity, location, and type to Emergency Management agencies	(2/ 9) 22%	(3/ 9) 33%
9. Incident Management agencies transfer information describing incident severity, location, and type to Transit Management agencies	(2/ 9) 22%	(4/ 9) 44%
6. Incident Management agencies disseminate information describing incident severity, location, and type to the public	(7/ 9) 78%	(7/ 9) 78%
5. Incident Management agencies transfer information describing incident severity, location, and type to Arterial Management agencies	(2/ 9) 22%	(3/ 9) 33%
8. Incident Management agencies transfer information describing incident severity, location, and type to Freeway Management agencies	(6/ 9) 67%	(7/ 9) 78%
25. Police, fire, and EMS agencies participating in a formal incident management plan/team	(43/ 50) 86%	(43/ 50) 86%

Arterial Management Component Indicators

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

Arterial Management*



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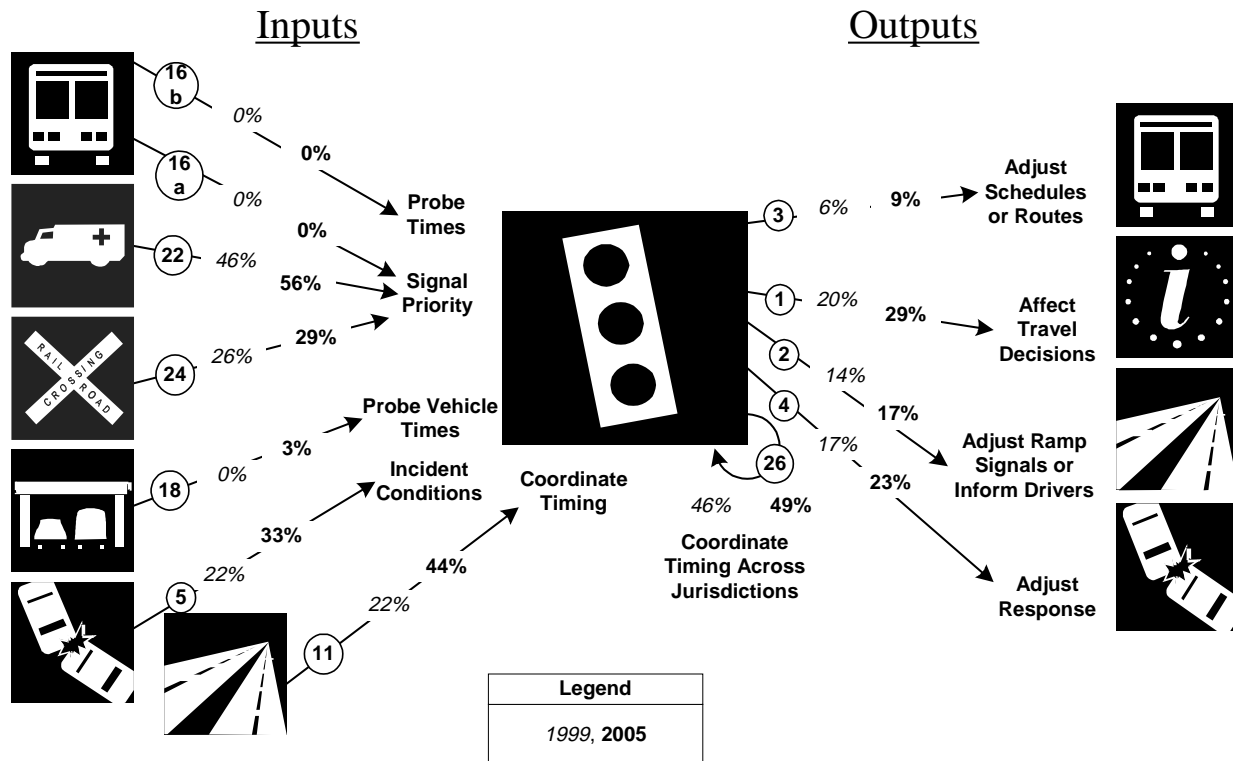
Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Arterial miles covered by electronic surveillance	557	7232	8%						
Signalized intersections are covered by electronic surveillance for monitoring traffic flow				875	29477	3%	1434	27448	5%

Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Signalized intersections are under centralized or closed loop control	7860	17650	45%	14075	29477	48%	20436	27448	74%
Arterial miles are covered by VMS, HAR, or IVS	60	7232	1%						
Arterial miles are covered by VMS				360	7232	5%	585	7232	8%
Arterial miles are covered by HAR				113	7232	2%	196	7232	3%
Arterial miles are covered by IVS				0	7232	0%	10	7232	0%

Arterial Management Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut

Arterial Management Integration*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
16a. Transit management agencies with vehicles equipped with traffic signal priority	(0/ 17) 0%	(0/ 17) 0%
16b. Transit Management agencies have vehicles equipped as probes on arterials	(0/ 17) 0%	(0/ 17) 0%
22. Emergency Management agencies have vehicles equipped with traffic signal preemption capability	(23/ 50) 46%	(28/ 50) 56%
24. Arterial Management agencies have traffic signals within 200 feet of a highway rail intersection with the capability of having their signal timing adjusted in response to a train crossing	(9/ 35) 26%	(10/ 35) 29%
18. Number of Arterial Management agencies receiving information from vehicle probes	(0/ 35) 0%	(1/ 35) 3%
5. Incident Management agencies transfer information describing incident severity, location, and type to Arterial Management	(2/ 9) 22%	(3/ 9) 33%
11. Freeway Management agencies transfer freeway travel times, speeds, and conditions to Arterial Management agencies	(2/ 9) 22%	(4/ 9) 44%

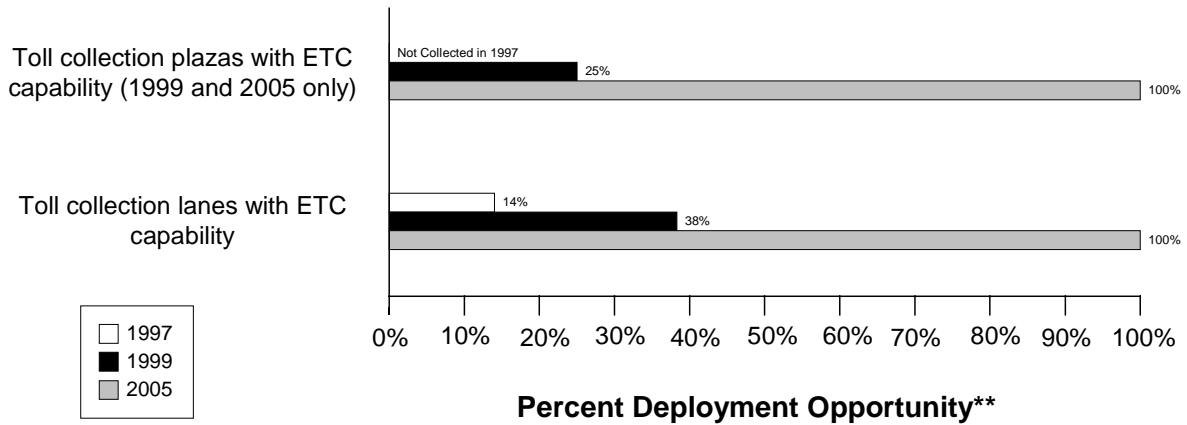
Link Description	1999	2005
3. Arterial Management agencies transfer arterial travel times, speeds, and conditions to Transit Management	(2/ 35) 6%	(3/ 35) 9%
1. Arterial Management agencies disseminate arterial travel times, speeds, and conditions to the public	(7/ 35) 20%	(10/ 35) 29%
2. Arterial Management agencies send traffic condition information to Freeway Management	(5/ 35) 14%	(6/ 35) 17%
4. Arterial Management agencies transfer arterial travel times, speeds, and conditions to Incident Management	(6/ 35) 17%	(8/ 35) 23%
26. Arterial Management agencies under cooperative agreement to share traffic signal timing for coordinated response	(16/ 35) 46%	(17/ 35) 49%

Electronic Toll Collection Component Indicators

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

Electronic Toll Collection*



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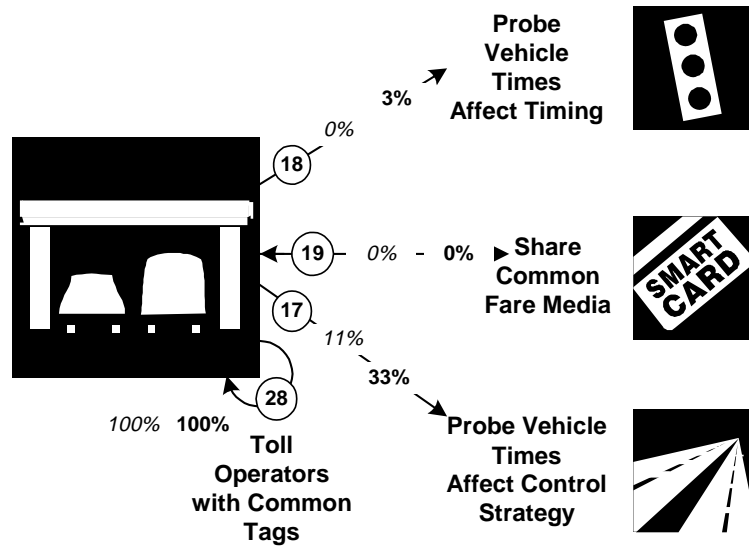
Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Toll collection plazas with ETC capability				22	88	25%	81	81	100%
Toll collection lanes with ETC capability	138	983	14%	415	1084	38%	391	391	100%

Electronic Toll Collection Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut Electronic Toll Collection Integration*

Inputs

Outputs

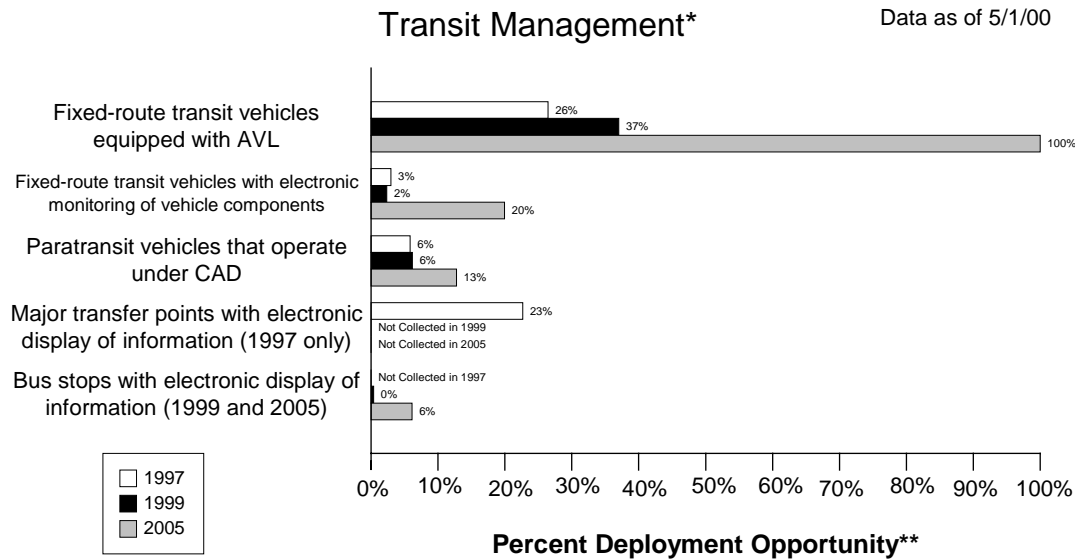


Legend
1999, 2005

* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
18. Number of Arterial Management agencies receiving information from vehicle probes	(0/ 35) 0%	(1/ 35) 3%
19. Transit agencies that accept electronic payment through the use of electronic toll collection media	(0/ 17) 0%	(0/ 17) 0%
17. Freeway Management agencies receiving information from vehicle probes	(1/ 9) 11%	(3/ 9) 33%
28. Toll operators using common toll tag technology	(18/ 18) 100%	(18/ 18) 100%

Transit Management Component Indicators New York, Northern New Jersey, Southwestern Connecticut



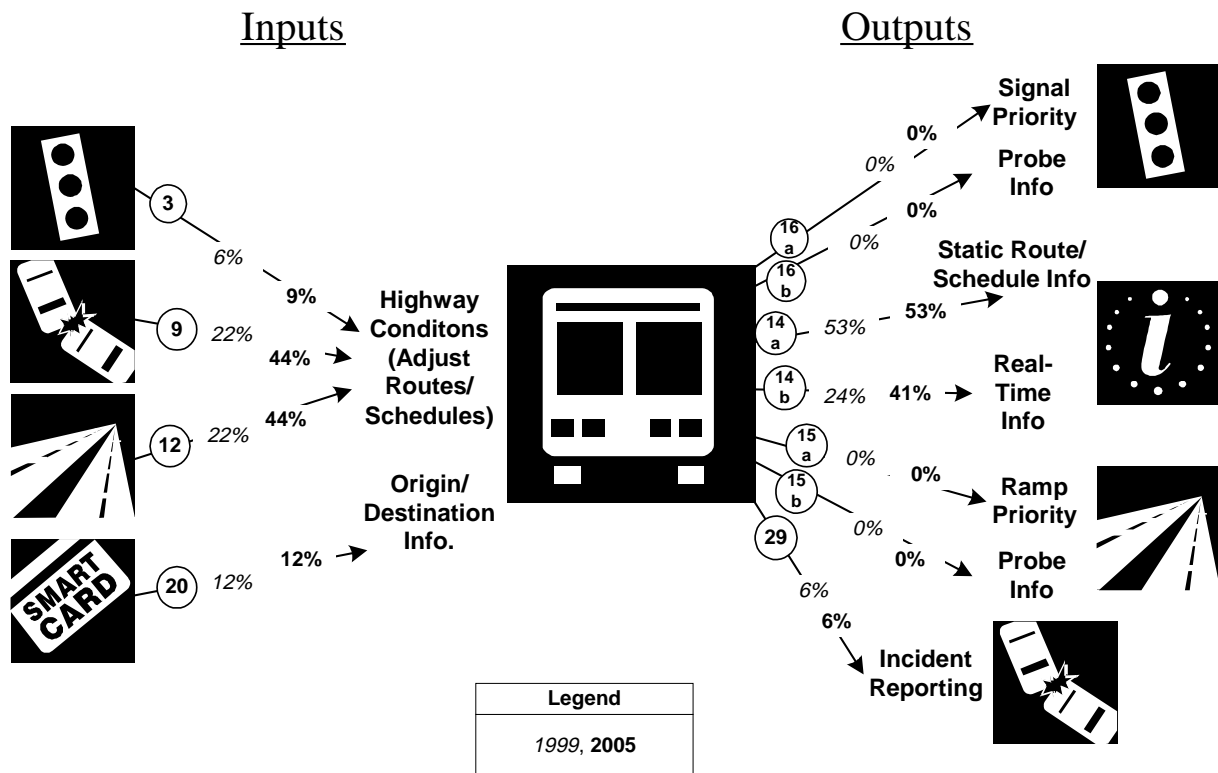
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** Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Fixed-route transit vehicles are equipped with AVL	2270	8573	26%	2614	7056	37%	3032	3032	100%
Fixed-route transit vehicles are equipped with electronic monitoring of vehicle component	258	8551	3%	168	7056	2%	606	3032	20%
Paratransit vehicles operate under computer-aided dispatch	23	391	6%	82	1328	6%	147	1149	13%
Percent fixed-route transfer locations with electronic display of information	17	75	23%						
Bus stops display information to the public				160	38530	0%	1504	24500	6%

Transit Management Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut Transit Management Integration*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
3. Arterial Management agencies transfer arterial travel times, speeds, and conditions to Transit Management	(2/ 35) 6%	(3/ 35) 9%
9. Incident management agencies transfer information describing incident severity, location, and type to Transit Management	(2/ 9) 22%	(4/ 9) 44%
12. Freeway Management agencies transfer freeway travel times, speeds, and conditions to Transit Management	(2/ 9) 22%	(4/ 9) 44%
20. Transit Management agencies using Electronic Fare Payment data in transit service planning	(2/ 17) 12%	(2/ 17) 12%
16a. Transit Management agencies have vehicles equipped with traffic signal priority capability	(0/ 17) 0%	(0/ 17) 0%
16b. Transit Management agencies have vehicles equipped as probes on arterials	(0/ 17) 0%	(0/ 17) 0%
14a. Transit Management agencies disseminate information describing transit routes, schedules, and fares to travelers	(9/ 17) 53%	(9/ 17) 53%

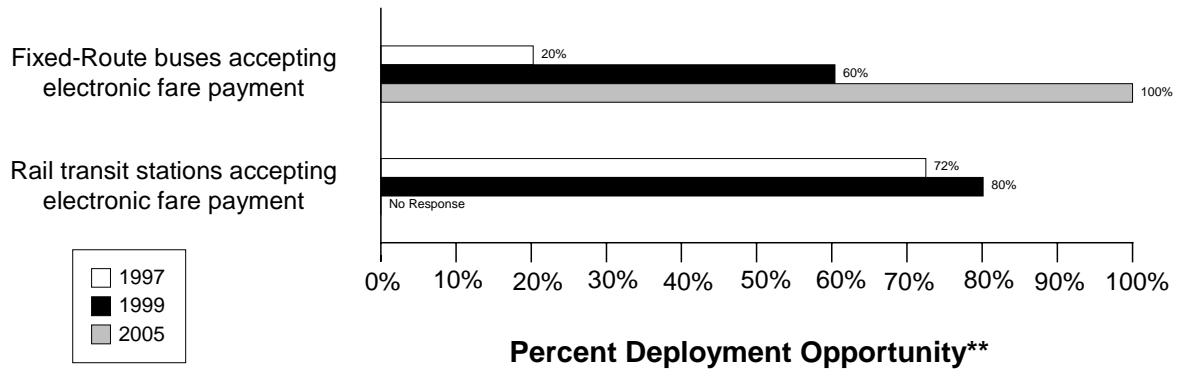
Link Description	1999	2005
14b. Transit Management agencies disseminate information describing schedule/route adherence to travelers	(4/ 17) 24%	(7/ 17) 41%
15a. Transit Management agencies have vehicles equipped with ramp meter priority capability	(0/ 17) 0%	(0/ 17) 0%
15b. Transit Management agencies have vehicles equipped as probes on freeways	(0/ 17) 0%	(0/ 17) 0%
29. Transit Management agencies that report traffic incidents as part of an organized regional Incident Management program	(1/ 17) 6%	(1/ 17) 6%

Electronic Fare Payment Component Indicators

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

Electronic Fare Payment*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.

** Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

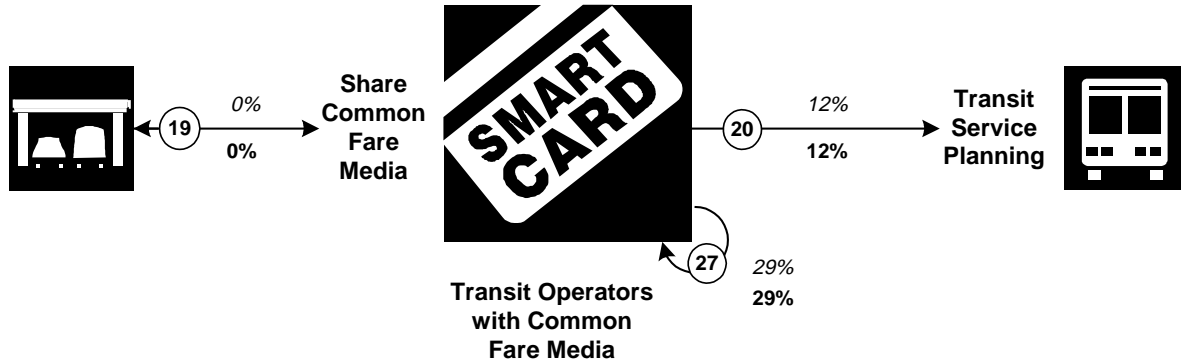
Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Fixed-route transit vehicles that accept electronic payment	1739	8573	20%	4263	7056	60%	4263	4063	100%
Rail transit stations that accept electronic payment	469	647	72%	468	584	80%		585	

Electronic Fare Payment Integration Indicators

**New York, Northern New Jersey, Southwestern Connecticut
Electronic Fare Payment Integration***

Inputs

Outputs



Legend
1999
2005

* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

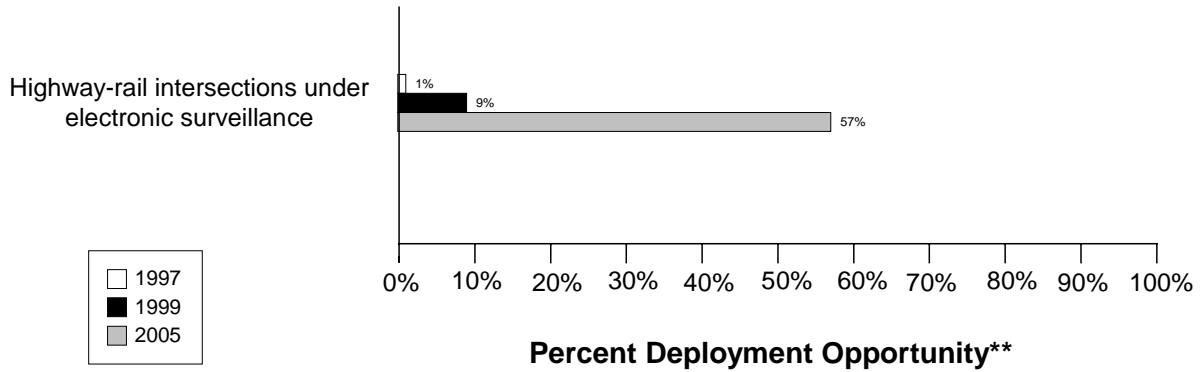
Link Description	1999	2005
19. Transit agencies that accept electronic payment through the use of electronic toll collection media	(0/ 17) 0%	(0/ 17) 0%
20. Transit Management agencies use Electronic Fare Payment data in transit service planning	(2/ 17) 12%	(2/ 17) 12%
27. Transit Management agencies that use the same electronic payment system	(5/ 17) 29%	(5/ 17) 29%

Highway Rail Intersection Component Indicators

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

Highway-Rail Intersections*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.

** Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

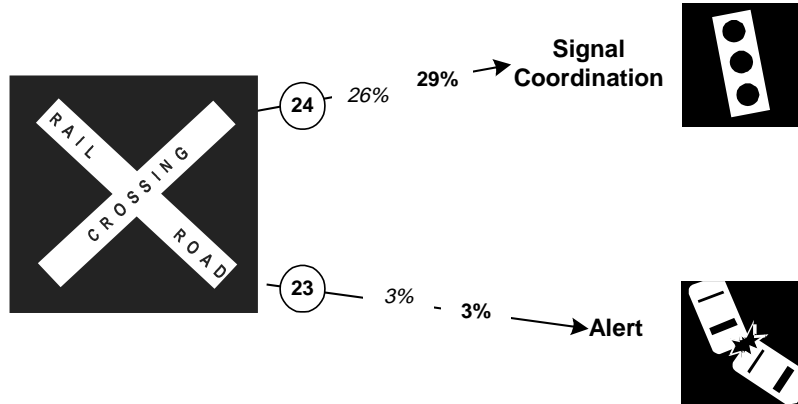
Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Highway-rail intersections are under electronic surveillance	4	369	1%	7	77	9%	44	77	57%

Highway Rail Intersection Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut Highway Rail Intersections Integration*

Inputs

Outputs



Legend
1999, 2005

* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

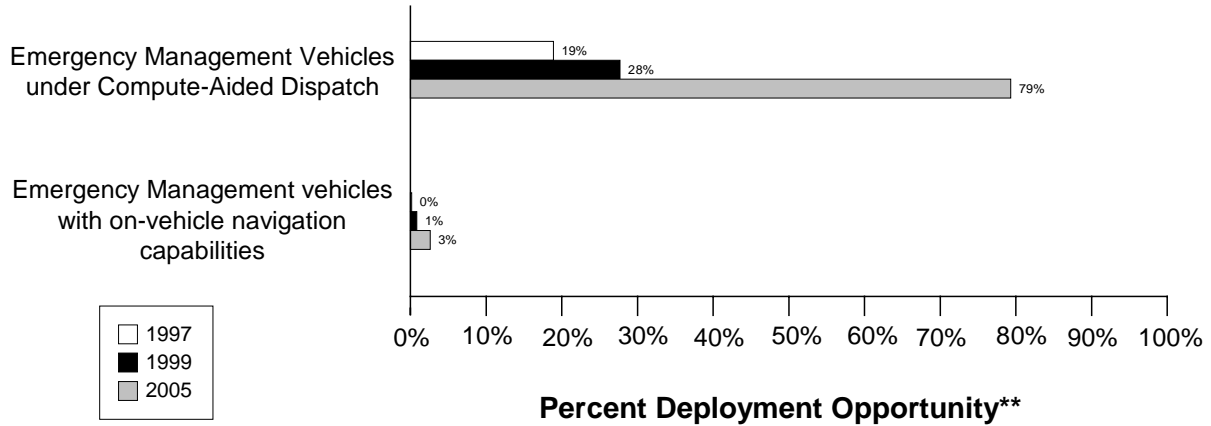
Link Description	1999	2005
24. Arterial Management agencies with traffic signals within 200 feet of a highway rail intersection with the capability of having their signal timing adjusted in response to a train crossing	(9/ 35) 26%	(10/ 35) 29%
23. Arterial Management agencies receive information on highway-rail intersection crossing blockages for the purpose of managing incident response	(1/ 35) 3%	(1/ 35) 3%

Emergency Management Component Indicators

New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

Emergency Management*



* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.
 ** Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

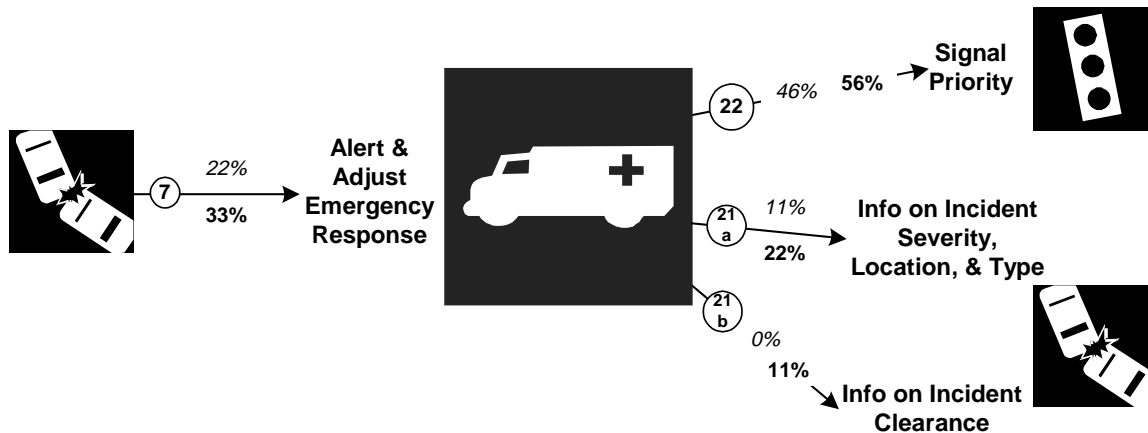
Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Public sector emergency vehicles that operate under computer-aided dispatch	556	2947	19%	754	2721	28%	1909	2406	79%
Public sector emergency vehicles that have in-vehicle route guidance capability	5	2947	0%	23	2721	1%	63	2406	3%

Emergency Management Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut Emergency Management Integration*

Inputs

Outputs



Legend
1999, 2005

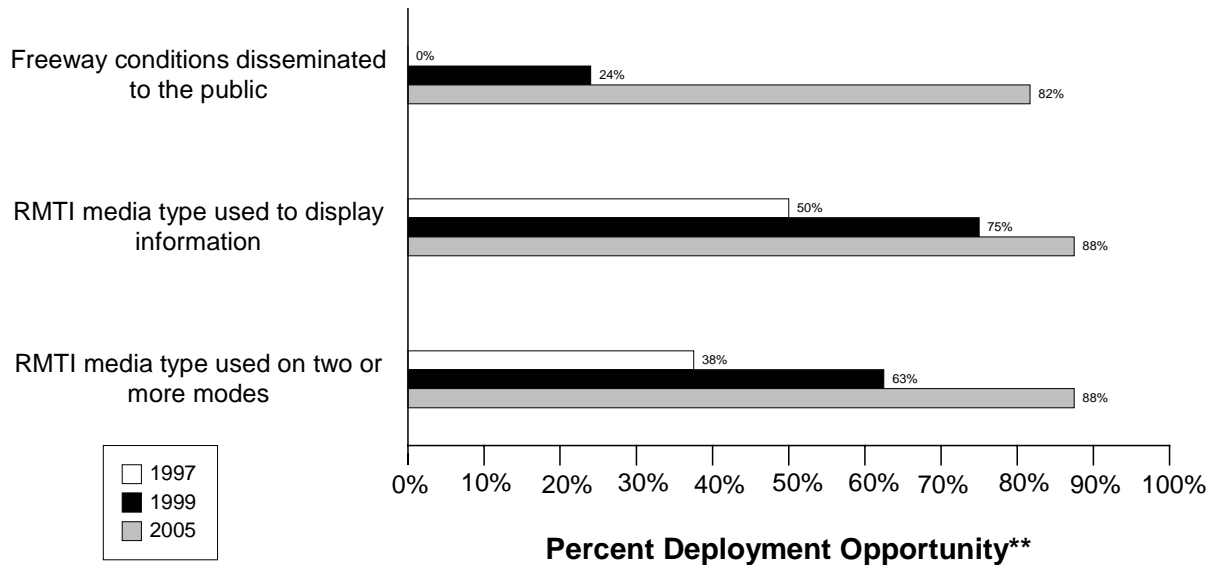
* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
7. Freeway Management agencies transfer information describing incident severity, location, and type to Emergency Management agencies	(2/ 9) 22%	(3/ 9) 33%
22. Emergency Management agencies have vehicles equipped with traffic signal preemption capability	(23/ 50) 46%	(28/ 50) 56%
21a. Freeway Management agencies receive incident severity, location, and type data from Emergency Management agencies	(1/ 9) 11%	(2/ 9) 22%
21b. Freeway Management agencies receive incident clearance activities information from Emergency Management agencies	(0/ 9) 0%	(1/ 9) 11%

Regional Multimodal Traveler Information Component Indicators New York, Northern New Jersey, Southwestern Connecticut

Data as of 5/1/00

Regional Multimodal Traveler Information*

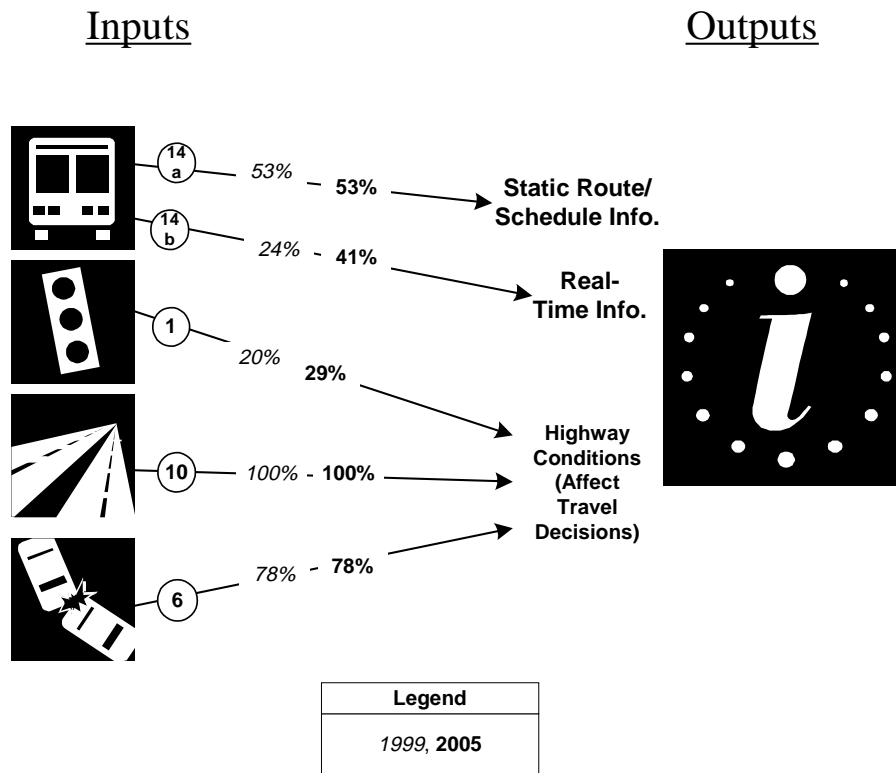


* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.
** Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

Description	1997			1999			2005		
	Num	Den	%	Num	Den	%	Num	Den	%
Freeway conditions disseminated to travelers	0	1286	0%	309	1286	24%	1051	1286	82%
Possible RMTI media types are used to display information to travelers	4	8	50%	6	8	75%	7	8	88%
Possible RMTI media are used to display information on <i>two or more modes</i> to travelers	3	8	38%	5	8	63%	7	8	88%

Regional Multimodal Traveler Information Integration Indicators

New York, Northern New Jersey, Southwestern Connecticut Regional Multimodal Traveler Information Integration*

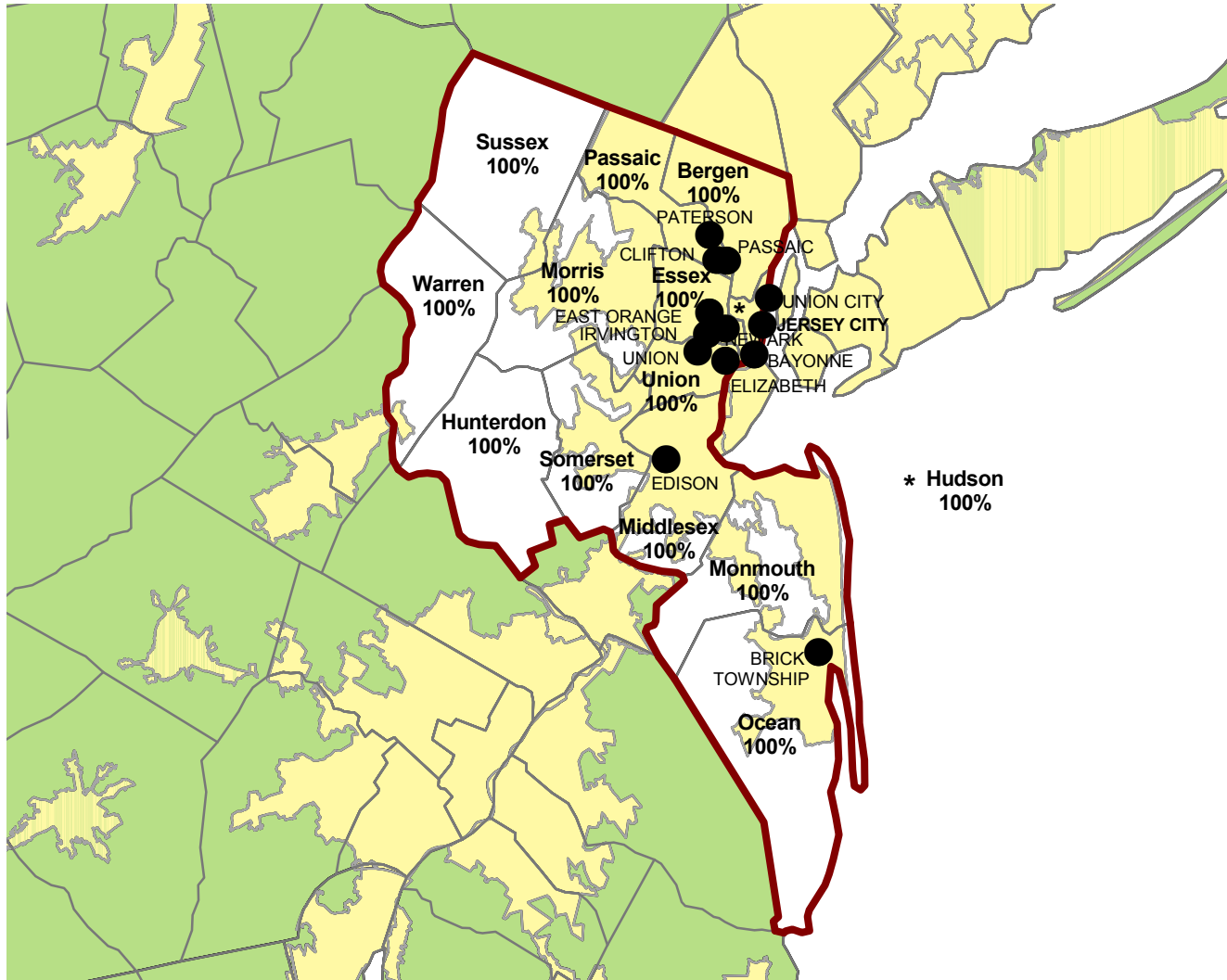


* Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
14a. Transit Management agencies that disseminate information describing transit routes, schedules, and fares to travelers	(9/ 17) 53%	(9/ 17) 53%
14b. Transit Management agencies that disseminate information describing schedule/route adherence to travelers	(4/ 17) 24%	(7/ 17) 41%
1. Arterial Management agencies that disseminate arterial travel times, speeds, and conditions to the public	(7/ 35) 20%	(10/ 35) 29%
10. Freeway Management agencies that disseminate freeway travel times, speeds, and conditions to travelers	(9/ 9) 100%	(9/ 9) 100%
6. Incident Management agencies that disseminate information describing incident severity, location, and type to the public	(7/ 9) 78%	(7/ 9) 78%

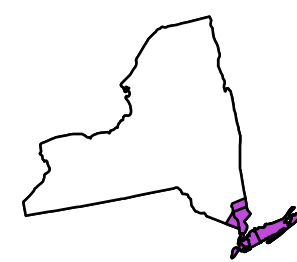
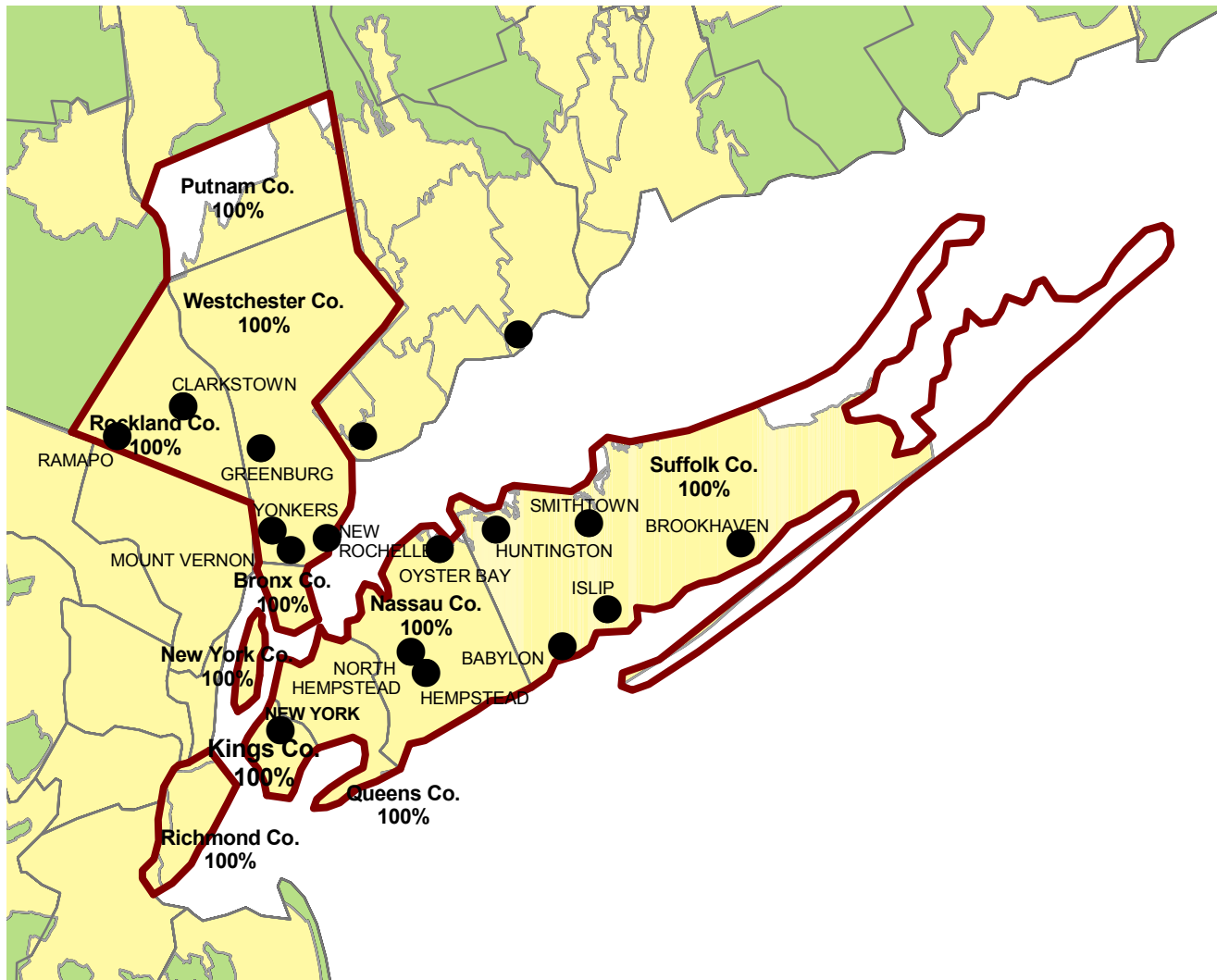
Appendix A
Survey Coverage Area

NORTH JERSEY TRANSPORTATION PLANNING AUTHORITY, NJ



- City Included in Surveys
 - ⚡ Metropolitan Planning Area Boundary
 - ⚡ County Boundary
 - Urbanized Area
 - Outside Survey Area
- Percentage on the Map Represents Percentage of County Population Included within MPO Boundary

NEW YORK METROPOLITAN TRANSPORTATION COUNCIL, NY



- City Included in Surveys
- ⚡ Metropolitan Planning Area Boundary
- ⚡ County Boundary
- Urbanized Area
- Outside Survey Area

Percentage on the Map Represents Percentage of County Population Included within MPO Boundary

Appendix B
Surveyed Agencies

Surveyed Agencies

Agency Name	Phone	Fax	1999		1997	
			Out	In	Out	In
NEW YORK, NORTHERN NEW JERSEY, SOUTHWESTERN CONNECTICUT						
Arterial Management						
Warren County	(908) 475-6545	(908) 475-6566	7/29/1999	8/16/1999	9/16/1997	10/14/1997
New Jersey Highway Authority(NJ)	(732) 442-8600	(732) 293-1106	7/29/1999	10/12/1999	9/15/1997	10/7/1997
New York State DOT-Hudson Valley Region 8	(914) 949-2162	(914) 949-3533	7/29/1999	10/13/1999	9/16/1997	10/1/1997
New York City DOT for Queens County	718-786-8853	(212) 442-7790	7/29/1999	10/19/1999	9/24/1997	
New York City DOT	(718) 786-2008	(718) 937-6807	7/29/1999	10/13/1999	9/16/1997	9/25/1997
New Jersey Department of Transportation(NJ)	(973) 770-5115	(973) 770-5066	7/29/1999	10/25/1999	12/10/1997	12/31/1997
Nassau County	(516) 571-4134	(516) 571-6623	7/29/1999	9/3/1999	9/22/1997	10/17/1997
Jersey City(NJ)	(201) 547-4470	(201) 547-4803	7/29/1999	10/19/1999	9/15/1997	10/7/1997
New York State DOT-Long Island Region 10	(518) 457-1232	(518) 457-1960	11/9/1999	11/9/1999	12/10/1997	12/31/1997
Smithtown Town	(516) 360-7635	(516) 360-7510	7/29/1999	9/20/1999	9/17/1997	9/29/1997
Irvington Township(NJ)	(973) 299-7970	(973) 334-5588	7/29/1999		9/16/1997	
Brookhaven Town	(516) 451-6480	(516) 451-6256	7/29/1999		9/16/1997	
Clarkstown Town	(914) 623-7500	(914) 624-7585	7/29/1999		9/16/1997	
Fairfield Town(CT)	(203) 256-3015	(203) 256-3080	7/29/1999	8/5/1999	9/16/1997	9/22/1997
Greenburgh Town	914-682-5340	914-682-5342	7/29/1999	9/7/1999	9/16/1997	10/2/1997
Greenwich Town(CT)	(203) 622-7731	(203) 622-7831	7/29/1999	10/12/1999	9/16/1997	
Huntington Town	(516) 351-3053	(516) 351-3066	7/29/1999		9/16/1997	
Sussex County(NJ)	(973) 579-0430	(973) 579-0444	7/29/1999		9/16/1997	
Ramapo Town(NJ)	(914) 357-6907	(914) 357-8197	7/29/1999	9/27/1999	9/22/1997	
Babylon Town	(516) 957-3105	(516) 957-3115	7/29/1999	10/25/1999	9/15/1997	10/7/1997
Union Township(NJ)	(908) 851-5029	(908) 851-5442	7/29/1999		9/16/1997	
Westchester County	(914) 285-4084	(914) 285-4479	7/29/1999	9/13/1999	9/16/1997	
Hudson County(NJ)	(201) 915-1360	(201) 433-9590	7/29/1999	10/19/1999		
Islip Town	(516) 224-5610	(516) 224-5243	7/29/1999		9/16/1997	
Patterson City(NJ)	973-881-3999	973-881-7924	7/29/1999		9/22/1997	9/24/1997
Somerset County	(908) 231-7024	(908) 231-7170	7/29/1999	8/13/1999	9/16/1997	
Bayonne City(NJ)	(201) 858-6070	(201) 858-6039	7/29/1999	11/16/1999	10/6/1997	10/14/1997
Bridgeport City(CT)	(203) 576-7142	(203) 576-8330	7/29/1999	8/27/1999	9/17/1997	
Clifton City(NJ)	(973) 470-5893	(973) 470-5806	7/29/1999	8/6/1999	9/22/1997	9/26/1997
East Orange City(NJ)	(973) 266-5330	(973) 266-5367	7/29/1999	10/12/1999	9/16/1997	
Elizabeth City(NJ)	(908) 558-2088	(908) 527-6588	7/29/1999	10/21/1999	9/16/1997	10/10/1997
Mount Vernon City	914-665-2541	914-665-2477	7/29/1999	10/27/1999	9/16/1997	10/9/1997

Agency Name	Phone	Fax	1999		1997	
			Out	In	Out	In
New Rochelle City	(914) 235-3859	(914) 235-3592	7/29/1999	10/13/1999	9/16/1997	
Newark City(NJ)	(973) 733-3969	(973) 733-4772	7/29/1999	10/26/1999	9/22/1997	9/26/1997
Norwalk City(CT)	(203) 854-7791	203-857-0143	7/29/1999	10/12/1999	9/22/1997	9/29/1997
Passaic City(NJ)	(973) 365-5500	(973) 472-2639	7/29/1999		9/16/1997	
Stamford City(CT)	203-977-5675	203-977-4004	7/29/1999	11/18/1999	9/24/1997	10/6/1997
Union City - New Jersey	(201) 348-5771	(201) 348-5728	7/29/1999	10/27/1999	9/16/1997	
Yonkers City Traffic Engineering Division	(914) 377-6739	(914) 964-5438	7/29/1999		9/16/1997	
Ocean County(NJ)	(732) 929-2130	(732) 506-5182	7/29/1999	10/19/1999	9/16/1997	
Hunterdon County	(908) 788-1229	(908) 788-1231	7/29/1999	8/9/1999	9/22/1997	9/29/1997
Monmouth County(NJ)	(732) 431-7760	(732) 431-7765	7/29/1999		9/16/1997	
Essex County(NJ)	(973) 226-8500	(973) 226-7469	7/29/1999		9/22/1997	9/29/1997
Connecticut Department of Transportation(CT)	(860) 594-2636	(860) 594-2655	7/29/1999	10/13/1999	9/16/1997	11/13/1997
Middlesex County(NJ)	(732) 745-3283	(732) 937-4585	7/29/1999	10/12/1999	9/16/1997	10/14/1997
Bergen County(NJ)	(201) 646-2865	(201) 646-3584	7/29/1999	11/17/1999	9/16/1997	
Electronic Toll Collection						
Port Authority of NY and NJ/Goethals Bridge	(212) 435-5141	(212) 435-5502	6/30/1999	8/30/1999	9/15/1997	
Port Authority of NY and NJ/Outerbridge	(212) 435-5141	(212) 435-5502	6/30/1999	8/30/1999	9/15/1997	
MTA Bridges & Tunnels/Henry Hudson Bridge	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
Port Authority of NY and NJ/George Washington	(212) 435-5141	(212) 435-5502	6/30/1999	8/30/1999	9/15/1997	
Port Authority of NY and NJ/Holland Tunnel	(212) 435-5141	(212) 435-5502	6/30/1999	8/30/1999	9/15/1997	
New York State Thruway Authority	518-436-2805	518-436-2968	8/18/1999	9/8/1999	9/15/1997	2/28/1998
Port Authority of NY and NJ/Bayone Bridge	(212) 435-5141	(212) 435-5502	6/30/1999	8/30/1999	9/15/1997	
MTA Bridges & Tunnels/Throgs Neck Bridge (I-	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
MTA Bridges & Tunnels/Marine Parkway Bridge	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
New Jersey Highway Authority(NJ)	(732) 442-8600	(732) 293-1106	6/30/1999	7/8/1999	9/15/1997	10/7/1997
MTA Bridges & Tunnels/Cross Bay Bridge	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
MTA Bridges & Tunnels/Brooklyn Battery Tunnel	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
MTA Bridges & Tunnels/Queens Midtown	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
MTA Bridges & Tunnels/Verrazano-Narrows	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
Port Authority of NY and NJ/Lincoln Tunnel	(212) 435-5141	(212) 435-5502	6/30/1999	8/30/1999	9/15/1997	
MTA Bridges & Tunnels/Bronx-Whitestone	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
MTA Bridges & Tunnels/Triborough Bridge (I-	(212) 468-8484	(212) 468-8475	6/30/1999	8/17/1999	9/15/1997	10/14/1997
New Jersey Turnpike Authority(NJ)	(732) 247-0900	(732) 247-1434	6/30/1999	7/1/1999	9/15/1997	9/24/1997
Emergency Management						
Amityville Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Amityville Fire District Emergency Medical	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		

Agency Name	Phone	Fax	1999		1997	
			Out	In	Out	In
Babylon Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999	9/17/1997	10/6/1997
Babylon Fire District Emergency Medical	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999	9/17/1997	10/6/1997
Babylon Town Fire Marsha & Hazardous	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999	9/17/1997	10/6/1997
Bayonne City Fire Department(NJ)	(201) 856-6008	(201) 858-6039	6/24/1999	9/2/1999	7/24/1998	7/24/1998
Bergen County Emergency Medical	(201) 646-2865	(201) 646-3584	6/24/1999		9/16/1997	
Bridgeport City Emergency Medical	(203) 576-8376	(203) 576-7154	6/24/1999	7/6/1999	9/17/1997	10/6/1997
Bridgeport City Fire Department(CT)	(203) 576-8376	(203) 576-7154	6/24/1999	7/6/1999	9/17/1997	10/6/1997
Bridgeport City Police Department(CT)	(203) 576-8376	(203) 576-7154	6/24/1999	7/6/1999	9/17/1997	10/6/1997
Clifton City Emergency Response (Other)(NJ)	(973) 470-5893	(973) 470-5806	6/24/1999		9/22/1997	9/26/1997
Clifton City Fire Department (EMS)(NJ)	973-470-5801	973-470-5844	6/24/1999	6/25/1999	9/22/1997	9/26/1997
Clifton City Fire Department(NJ)	973-470-5803	973-470-5844	6/24/1999	6/25/1999	9/22/1997	9/26/1997
Clifton City Police Department(NJ)	(973) 470-5893	(973) 470-5806	6/24/1999		9/22/1997	9/26/1997
Copiague Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Copiague Fire District Emergency Medical	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Deer Park Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Deer Park Fire District Emergency Medical	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
East Farmingdale Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
East Farmingdale Fire District Emergency	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Elizabeth City Emergency Medical Services(NJ)	(908) 558-2088	(908) 527-6588	6/24/1999	8/12/1999	9/17/1997	10/6/1997
Elizabeth City Fire Department(NJ)	(908) 820-2806	908-994-0991	6/24/1999	8/3/1999	9/17/1997	10/6/1997
Elizabeth City Police Department(NJ)	(908) 558-2088	(908) 527-6588	6/24/1999	8/12/1999	9/17/1997	10/6/1997
Greenburgh Town Emergency Medical Services	914-682-5340	914-682-5342	6/24/1999	7/13/1999	9/16/1997	10/2/1997
Greenburgh Town Police Department	914-682-5340	914-682-5342	6/24/1999	7/13/1999	9/16/1997	10/2/1997
Islip City Fire Department	(516) 581-5656	(516) 581-2534	6/24/1999	8/11/1999	7/23/1998	7/23/1998
Islip City Police Department	(516) 224-5656	(516) 224-5672	6/24/1999		7/24/1998	7/24/1998
Jersey City Emergency Medical Services(NJ)	(201) 547-4470	(201) 547-4803	6/24/1999		9/17/1997	10/7/1997
King County Sheriff	(212) 247-6188	(212) 397-0370	6/24/1999	8/30/1999	7/16/1998	7/16/1998
Lindenhurst Fire District Emergency Medical(NJ)	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Lindenhurst Fire District(NJ)	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Monmouth County Sheriff(NJ)	(732) 308-2977	(732) 294-5965	6/24/1999	6/25/1999	7/24/1998	7/24/1998
Morris County Sheriff Department(NJ)	(973) 285-6600	(973) 285-6842	6/24/1999		7/24/1998	7/24/1998
Mount Vernon City Emergency Medical Services	(914) 665-2612	(914) 665-2630	7/8/1999	8/12/1999		
Mount Vernon City Fire Department	(914) 665-2612	(914) 665-2630	7/8/1999	8/12/1999		
Mount Vernon City Police Department	914-665-2300	914-665-2496	7/8/1999	9/17/1999		
New Jersey Highway Authority(NJ)	(732) 442-8600	(732) 293-1106	6/24/1999	8/17/1999		
New Rochelle Fire Department	(914) 654-2211	914-632-2907	6/24/1999	6/28/1999	7/24/1998	7/24/1998

Agency Name	Phone	Fax	1999		1997	
			Out	In	Out	In
New York County Sheriff	(212) 247-6188	(212) 397-0370	6/24/1999	8/30/1999	7/16/1998	7/16/1998
Newark City Fire Department(NJ)	973-733-3660	973-733-3662	8/11/1999		9/22/1997	9/26/1997
North Amityville Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
North Amityville Fire District Emergency Medical	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
North Babylon Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
North Babylon Fire District Emergency Medical	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
North Lindenhurst Fire District Emergency	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
North Lindenhurst Fire District(NJ)	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Norwalk City Fire Department(CT)	203-866-3312	203-857-4411	6/24/1999	8/27/1999	9/16/1997	9/29/1997
Norwalk City Police Department(CT)	203-000-0000	203-857-0143	6/24/1999		9/16/1997	9/29/1997
Queens County Sheriff	(212) 247-6188	(212) 397-0370	6/24/1999	8/30/1999	7/15/1998	7/15/1998
Richmond County Sheriff	(212) 247-6188	(212) 397-0370	6/24/1999	8/30/1999	7/16/1998	7/16/1998
Smithtown Town Emergency Medical Services	(516) 360-7635	(516) 360-7510	6/24/1999		9/16/1997	9/29/1997
Smithtown Town Fire Department	(516) 360-7635	(516) 360-7510	6/24/1999		9/16/1997	9/29/1997
Suffolk County Emergency Medical Services	(516) 852-4165	(516) 852-4150	6/24/1999	7/13/1999	9/16/1997	12/23/1997
Suffolk County Fire Department	(516) 852-4165	(516) 852-4150	6/24/1999	7/13/1999	9/16/1997	12/23/1997
Sussex County Sheriff	(973) 579-0850	(973) 579-7884	6/24/1999	6/25/1999	7/24/1998	7/24/1998
West Babylon Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
West Babylon Fire District Emergency Medical	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Wyandanch Fire District	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Wyandanch-Wheatley Heights Ambulance	(516) 957-3105	(516) 957-3115	6/24/1999	7/2/1999		
Yonkers Fire Department	(914) 377-7500	(914) 377-7560	6/25/1999	6/28/1999	7/23/1998	7/23/1998
Freeway Management						
Connecticut Department of Transportation(CT)	(860) 594-2636	(860) 594-2655	7/29/1999	10/10/1999	9/15/1997	11/13/1997
New York State DOT-Long Island Region 10	(518) 457-1232	(518) 457-1960	11/9/1999	11/9/1999	12/10/1997	12/31/1997
New York City DOT	(212) 442-7090	(212) 442-7125	7/29/1999		9/15/1997	12/31/1997
New Jersey Highway Authority(NJ)	(732) 442-8600	(732) 293-1106	7/29/1999	10/10/1999	9/15/1997	10/7/1997
Palisades Interstate Park Commission	(201) 768-1360	(201) 767-3842	7/29/1999	10/4/1999	9/15/1997	10/2/1997
New Jersey Turnpike Authority(NJ)	(732) 247-0900	(732) 247-1434	7/29/1999	8/9/1999	9/15/1997	9/24/1997
Transcom	(201) 963-4033	(201) 963-7488	7/29/1999	10/15/1999		
Port Authority of New York and New Jersey	(212) 435-5141	(212) 435-5502	7/29/1999		9/15/1997	11/13/1997
New York State DOT-Hudson Valley Region 8	(914) 949-2162	(914) 949-3533	7/29/1999	9/17/1999	12/10/1997	12/31/1997
New York State Thruway Authority	(518) 436-2816	(518) 436-2968	9/8/1999	12/9/1999	9/15/1997	12/31/1997
New Jersey Department of Transportation(NJ)	(973) 770-5115	(973) 770-5066	7/29/1999	8/23/1999	9/15/1997	9/27/1997
MPO						
South Western Regional Planning Agency(NJ)	(203) 866-5543	(203) 866-6502	7/15/1999	9/27/1999		

Agency Name	Phone	Fax	1999		1997	
			Out	In	Out	In
North Jersey Transportation Planning Authority	(973) 639-8400	(973) 639-1953	7/15/1999	9/29/1999		
Greater Bridgeport Regional Planning	(203) 366-5405	(203) 366-8437	7/15/1999	8/2/1999		
New York Metropolitan Transportation Council	(212) 938-3355	(212) 938-3295	7/15/1999			
Transit Management						
Suffolk County	(631) 852-4880	(631) 852-4873	8/9/1999	12/15/1999	9/18/1997	9/26/1997
Suburban Transit Corporation(NJ)	(732) 249-1100	(732) 249-6527	8/9/1999		10/6/1997	
Staten Island Rapid Transit	718-876-8238	718-876-8258	11/22/1999		9/18/1997	10/7/1997
Village of Spring Valley Bus	(914) 573-5800	(914) 352-1164	8/9/1999		9/18/1997	
Westchester County	(914) 285-5259	(914) 682-2987	8/9/1999	9/27/1999	9/18/1997	10/6/1997
Green Bus Lines	(718) 995-4700	(718) 995-4712	8/9/1999	11/22/1999	10/16/1997	11/19/1997
Queens Surface Corporation	(718) 445-3500	(718) 445-3992	8/9/1999		10/6/1997	10/10/1997
Norwalk Transit District/Westport Transit	(203) 853-3338	(203) 853-6761	8/9/1999	8/23/1999	9/18/1997	9/29/1997
New York City Transit Authority	(718) 330-4321	(718) 596-2146	8/9/1999	9/13/1999	9/18/1997	10/7/1997
New York City DOT	(212) 442-7738	(212) 442-7348	8/9/1999		9/18/1997	10/14/1997
New York Bus Service	(718) 994-5500	(718) 994-6927	8/9/1999		10/6/1997	
Rockland Coaches Incorporated	(201) 384-2400	(201) 384-2765	8/9/1999		9/18/1997	9/22/1997
Clarkstown Mini-Trans	(914) 639-2050	(914) 634-5456	8/9/1999	9/7/1999	7/2/1997	9/18/1997
Academy Lines Incorporated(NJ)	(201) 420-7000	(201) 420-6051	8/9/1999		9/18/1997	
Putnam County Transit	(914) 878-3480	(914) 878-6721	8/9/1999	11/23/1999	9/18/1997	9/22/1997
Stamford Dial-A-Ride(CT)	(203) 977-4049	(203) 977-4759	8/9/1999	10/1/1999	9/18/1997	
New Jersey Transit Corporation(NJ)	(973) 491-7861	(973) 491-7837	8/9/1999	10/5/1999	7/2/1997	9/18/1997
Command Bus Company	(718) 277-8100	(718) 277-8210	8/9/1999	10/7/1999	10/6/1997	10/7/1997
Connecticut Department of Transportation(CT)	(860) 594-2802	(860) 594-3406	8/9/1999		9/15/1997	
Connecticut Transit-Stamford(CT)	(860) 522-8101	(860) 247-1810	8/9/1999	8/20/1999	9/17/1997	9/23/1997
Hudson Transit Lines Incorporated(NJ)	(201) 529-3666	(201) 529-0221	8/9/1999		9/18/1997	1/21/1998
Jamaica Buses	(718) 526-0800	(718) 739-3361	8/9/1999	8/26/1999	10/6/1997	10/8/1997
Liberty Lines Express, Incorporation	(914) 376-6318	(914) 376-6373	8/9/1999		10/6/1997	10/16/1997
Metro-North Railroad MTA	(212) 340-2677	(212) 340-4995	8/9/1999	11/24/1999	9/18/1997	9/29/1997
MTA Long Island Bus	(516) 542-0100	(516) 542-1428	8/9/1999	9/14/1999	9/18/1997	
Monsey New Square Trails(NJ)	(914) 354-7026	(914) 354-9454	8/9/1999		9/18/1997	
Huntington Area Rapid Transit (HART)	631-427-8822	631-427-2421	8/9/1999	8/20/1999	9/18/1997	
Long Beach City	(516) 431-1000	(516) 431-1389	8/9/1999	9/16/1999	9/18/1997	9/22/1997

Appendix C
Freeway Management Components

Freeway Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
FREEWAY MANAGEMENT SECTION								
Number of freeway centerline miles that agency owns or maintains	NR		306		1,070		61	
Number of freeway centerline miles that is used for planning	NR		306		NR		61	
Number of freeway entrance ramps that agency owns, operates or maintains	NR		NR		NR		55	
Number of freeway entrance ramps that is used for planning	NR		NR		NR		55	
Type of facilities used to conduct freeway/incident management activities								
Activities housed in a free-standing dedicated building?	No		Yes		No		No	
Activities housed in a building shared with other activities?	No		Yes		No		Yes	
Activities conducted in a dedicated control room?	No		Yes		Yes		Yes	
Control room contains operator console(s)?	No		No		No		No	
Control room contains electronic wall map?	No		No		No		No	
Control room contains CCTV display(s)?	No		No		No		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		Yes		No		Yes	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		Yes	
Staffing and hours of operation of freeway/incident management activities								
Number of full-time agency staff members	NR	N/A	25	N/A	12	N/A	23	N/A
Number of full time contractor staff members	NR	N/A	NR	N/A	NR	N/A	0	N/A
Number of part-time agency staff members	NR	N/A	NR	N/A	NR	N/A	NR	N/A
Number of part-time contractor staff members	NR	N/A	NR	N/A	NR	N/A	NR	N/A
Staffed 24 hours day by agency staff or by others	NR	N/A	NR	N/A	agency	N/A	agency	N/A
Staffed during peak hours only by agency staff or by others	NR	N/A	agency	N/A	NR	N/A	NR	N/A
Staffed by others during off-peak hours	No	N/A	No	N/A	No	N/A	No	N/A
Agency staff perform transportation management as an ancillary duty	No	N/A	No	N/A	No	N/A	No	N/A
Agency staff dedicated to transportation management duty	No	N/A	No	N/A	No	N/A	No	N/A
Types of operations conducted for freeway/incident management								
Incident detection and management?	No	N/A	Yes	N/A	No	N/A	Yes	N/A
This metropolitan area?	No	N/A	Yes	N/A	No	N/A	No	N/A
Other metropolitan area?	No	N/A	Yes	N/A	No	N/A	No	N/A
Statewide?	No	N/A	Yes	N/A	No	N/A	Yes	N/A
Monitoring and troubleshooting status of system components?	No	N/A	Yes	N/A	No	N/A	Yes	N/A
Manual override of ramp metering rates at freeway on-ramps?	No	N/A	No	N/A	No	N/A	No	N/A
Operating transportation management roadside devices?	No	N/A	Yes	N/A	Yes	N/A	Yes	N/A
Radio communications with other agencies?	No	N/A	No	N/A	No	N/A	No	N/A
Exchange of electronic data with other agencies such as computer aided dispatch?	No	N/A	No	N/A	Yes	N/A	Yes	N/A
Real-Time Traffic Data Collection Technologies								

Freeway Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of miles under surveillance with real-time data collection tech.	35	40	70	120	12	60	NR	NR
<i>Number of Stations with data collection technologies</i>								
Loop detectors	0	0	0	0	0	0	861	NR
Video imaging detectors	0	0	0	0	0	0	92	NR
Probe readers (elec. toll tags, transit vehicles, other technology)	0	0	5	35	1	16	0	0
Microwave radar	0	0	300	300	0	0	12	NR
Other (e.g., acoustic detectors)	0	0	0	0	0	0	0	0
<i>Number of Miles covered with data collection technologies</i>								
Loop detectors	0	0	0	0	0	0	NR	NR
Video imaging detectors	0	0	0	0	0	0	NR	NR
Probe readers (elec. toll tags, transit vehicles, other technology)	0	0	4	70	12	60	0	0
Microwave radar	0	0	70	70	0	0	NR	NR
Other (e.g., acoustic detectors)	0	0	0	0	0	0	0	0
Variable Message Signs (VMS) on Freeways								
Candidate locations for deployment of VMS where VMS has been deployed	23	25	34	60	38	45	11	NR
Candidate locations for deployment of VMS	0	0	34	60	NR	NR	12	NR
Roadside Technologies used to Distribute Traveler Information								
Total number of miles where information is distributed	70	70	70	140	NR	NR	NR	NR
<i>Number deployed</i>								
Highway advisory radio	NR	NR	7	14	0	0	NR	13
In-vehicle signing	0	0	0	0	0	0	0	0
Portable variable message signs	0	0	33	50	0	0	4	2
Other	0	0	0	0	0	0	0	0
<i>Miles covered</i>								
Highway advisory radio	70	70	70	140	0	0	NR	NR
In-vehicle signing	0	0	0	0	0	0	0	0
Portable variable message signs	0	0	NR	NR	0	0	NR	NR
Other	0	0	0	0	0	0	0	0
Ramp Meters on Freeways								
Number of entrance ramp meters operated under isolated control	NR	NR	NR	NR	NR	NR	NR	NR
Number of entrance ramp meters operated under central control	NR	NR	NR	NR	NR	NR	NR	NR
Number of entrance ramp meters that provide preemption for emergency vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Number of entrance ramp meters that provide priority for transit vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Total number of metered ramps	0	0	NR	NR	NR	NR	NR	NR
Freeway centerline miles under lane control	0	0	NR	NR	NR	NR	NR	NR
Communication Links								
<i>Freeway centerline miles covered by the following type of communication</i>								
Twisted pair cable	0	0	0	0	0	0	0	0
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	0	0	70	70	0	0	0	122
Microwave radio	0	0	0	0	0	0	122	NR

Freeway Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Other	0	0	0	0	0	0	0	0
ITS Standards Used Related to Freeway Management								
ATMS Data Dictionary Sections 1 and 2 (ITE TM 1.01)	No		Yes		No		No	
ATMS Data Dictionary Sections 3 and 4 (ITE TM 1.02)	No		Yes		No		No	
Message Set for External TMC Communication (ITE-9604-1)	No		Yes		No		No	
NTCIP Class B Profile (AASHTO TS 3.3)	No		Yes		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		Yes		No		No	
NTCIP Object Definitions for Environmental Sensor Stations (AASHTO TS 3.7)	No		Yes		No		No	
NTICP Object Definitions for Dynamic Message Signs (AASHTO TS 3.6)	No		Yes		No		No	
NTICP Object Definitions for Highway Advisory Radio (AASHTO TS 3.HAR)	No		Yes		No		No	
NTICP Object Definitions for Ramp Meter Control (AASHTO TS 3.RMC)	No		No		No		No	
NTICP Object Definitions for Transportation Sensor Systems (AASHTO TS 3.TSS)	No		Yes		No		No	
NTICP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		Yes		No		No	
Would agency be willing to participate in testing of ITS Standards?	NR		Yes		Yes		No	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?								
	NR		No		No		No	
INCIDENT MANAGEMENT SECTION								
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	Yes		Yes		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of freeway miles patrolled by these services	40	40	90	120	NR	NR	44	44
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	NR	NR	NR	NR	NR	NR	122	122
Police patrols	NR	NR	306	306	NR	NR	122	122
Computer algorithms linked to traffic surveillance equipment	35	40	70	140	NR	NR	44	44
CCTV	35	40	70	140	NR	NR	8	8
Private sector sources (e.g., Shadow Traffic, SmartRoutes)	NR	NR	NR	NR	NR	NR	122	122
Other (e.g., free cell phone call to an area radio system, etc.)	NR	NR	NR	NR	NR	NR	NR	NR
Procedures in place for Freeway Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		Yes		No		Yes	
Inter-agency incident management admin. team that meets regularly	No		Yes		No		Yes	
Major incident response team that responds to major incidents	No		Yes		No		Yes	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Central focal point for facilitating the two-way flow of information among agencies responding to an incident?								
The central focal point is a Freeway or Traffic Management Center	No		Yes		No		Yes	
The central focal point is a Police, Fire or joint dispatch center	No		No		No		No	
The central focal point is another center	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								

Freeway Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Two-way radio	No		Yes		No		Yes	
800 MHz trunked radio	No		Yes		No		Yes	
Cellular telephone	No		Yes		No		No	
Hand-held (i.e., walkie-talkie)	No		Yes		No		Yes	
Automated data systems (i.e., CAD)	No		No		No		No	
<u>Fire</u>								
Two-way radio	No		No		No		Yes	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
<u>DOT</u>								
Two-way radio	No		Yes		No		Yes	
800 MHz trunked radio	No		Yes		No		No	
Cellular telephone	No		Yes		No		Yes	
Hand-held (i.e., walkie-talkie)	No		Yes		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		Yes	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		Yes	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Which police agencies typically respond to incidents on freeways?								
State Police	No		Yes		No		Yes	
County Police or Sheriff	No		No		No		No	
City Police	No		No		No		No	
Who provides on-site emergency medical response?								
Fire	No		No		No		No	
Emergency Management Service Agency	No		Yes		No		No	
Private hospital	No		Yes		No		Yes	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	NR		Yes		NR		Yes	
Is the Incident Command System used to manage incident scenes?	NR		Yes		NR		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		Yes	
Formal agreement?	No		No		No		No	
Not specified or don't know?	No		Yes		No		No	
On-scene command post used to manage activities of responding agencies?	NR		Yes		NR		Yes	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		Yes		NR		Yes	

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	NR		No		NR		Yes	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	NR		Yes		NR		DK	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		Yes		NR		Yes	
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		Yes		NR		No	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		Yes		NR		Yes	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		>36		NR		0-24	
Have policies or procedures for quick removal of vehicles?	NR		Yes		NR		Yes	
Is Total Station equipment used to investigate major incidents?	NR		Yes		NR		Yes	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		Yes		No		Yes	
Rotation with companies under contract?	No		Yes		No		Yes	
Separate lists kept for light and heavy response and for specialty recovery?	NR		Yes		NR		Yes	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	NR		DK		NR		No	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Freeway Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Hudson Valley Region 8		New York State DOT-Long Island Region 10		New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
FREEWAY MANAGEMENT SECTION								
Number of freeway centerline miles that agency owns or maintains	9,574		NR		83		24	
Number of freeway centerline miles that is used for planning	9,574		NR		271		24	
Number of freeway entrance ramps that agency owns, operates or maintains	NR		350		224		8	
Number of freeway entrance ramps that is used for planning	NR		200		731		8	
Type of facilities used to conduct freeway/incident management activities								
Activities housed in a free-standing dedicated building?	No		No		No		No	
Activities housed in a building shared with other activities?	Yes		Yes		Yes		Yes	
Activities conducted in a dedicated control room?	No		Yes		Yes		No	
Control room contains operator console(s)?	No		No		Yes		No	
Control room contains electronic wall map?	No		No		No		No	
Control room contains CCTV display(s)?	No		No		Yes		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	Yes		Yes		Yes		No	
Facilities are electronically linked to other transportation mgt facilities?	No		No		Yes		No	
Staffing and hours of operation of freeway/incident management activities								
Number of full-time agency staff members	4	N/A	3	N/A	NR		1	
Number of full time contractor staff members	0	N/A	NR	N/A	NR		NR	
Number of part-time agency staff members	0	N/A	NR	N/A	NR		NR	
Number of part-time contractor staff members	0	N/A	NR	N/A	NR		NR	
Staffed 24 hours day by agency staff or by others	NR	N/A	others	N/A	agency		agency	
Staffed during peak hours only by agency staff or by others	NR	N/A	NR	N/A	NR		NR	
Staffed by others during off-peak hours	No	N/A	No	N/A	No		No	
Agency staff perform transportation management as an ancillary duty	Yes	N/A	No	N/A	No		No	
Agency staff dedicated to transportation management duty	Yes	N/A	Yes	N/A	Yes		No	
Types of operations conducted for freeway/incident management								
Incident detection and management?	Yes	N/A	Yes	N/A	Yes		No	
This metropolitan area?	Yes	N/A	Yes	N/A	Yes		No	
Other metropolitan area?	No	N/A	No	N/A	Yes		No	
Statewide?	No	N/A	No	N/A	No		No	
Monitoring and troubleshooting status of system components?	Yes	N/A	Yes	N/A	Yes		No	
Manual override of ramp metering rates at freeway on-ramps?	No	N/A	Yes	N/A	No		No	
Operating transportation management roadside devices?	Yes	N/A	Yes	N/A	Yes		No	
Radio communications with other agencies?	Yes	N/A	No	N/A	Yes		Yes	
Exchange of electronic data with other agencies such as computer aided dispatch?	No	N/A	No	N/A	Yes		No	
Real-Time Traffic Data Collection Technologies								

Freeway Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Hudson Valley Region 8		New York State DOT-Long Island Region 10		New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of miles under surveillance with real-time data collection tech.	0	100	150	195	23	36	NR	NR
<i>Number of Stations with data collection technologies</i>								
Loop detectors	0	100	2,600	2,600	37	82	0	0
Video imaging detectors	0	0	30	NR	15	42	0	0
Probe readers (elec. toll tags, transit vehicles, other technology)	0	35	0	0	15	33	0	0
Microwave radar	0	0	0	0	0	0	0	0
Other (e.g., acoustic detectors)	0	0	0	0	0	0	0	0
<i>Number of Miles covered with data collection technologies</i>								
Loop detectors	0	100	130	130	NR	NR	0	0
Video imaging detectors	0	0	20	NR	NR	NR	0	0
Probe readers (elec. toll tags, transit vehicles, other technology)	0	60	0	0	NR	NR	0	0
Microwave radar	0	0	0	0	0	0	0	0
Other (e.g., acoustic detectors)	0	0	0	0	0	0	0	0
Variable Message Signs (VMS) on Freeways								
Candidate locations for deployment of VMS where VMS has been deployed	NR	75	150	185	6	29	NR	NR
Candidate locations for deployment of VMS	NR	97	NR	NR	15	67	NR	NR
Roadside Technologies used to Distribute Traveler Information								
Total number of miles where information is distributed	0	100	45	90	NR	NR	0	12
<i>Number deployed</i>								
Highway advisory radio	5	15	4	8	11	19	0	1
In-vehicle signing	0	0	0	0	0	0	0	0
Portable variable message signs	0	15	0	0	11	11	0	0
Other	0	0	0	0	0	0	0	0
<i>Miles covered</i>								
Highway advisory radio	0	100	45	90	NR	NR	0	12
In-vehicle signing	0	0	0	0	0	0	0	0
Portable variable message signs	NR	NR	0	0	NR	NR	0	0
Other	0	0	0	0	0	0	0	0
Ramp Meters on Freeways								
Number of entrance ramp meters operated under isolated control	NR	NR	0	0	NR	NR	NR	NR
Number of entrance ramp meters operated under central control	NR	NR	77	NR	NR	NR	NR	NR
Number of entrance ramp meters that provide preemption for emergency vehicles	NR	NR	0	NR	NR	NR	NR	NR
Number of entrance ramp meters that provide priority for transit vehicles	NR	NR	4	NR	NR	NR	NR	NR
Total number of metered ramps	NR	NR	81	NR	NR	NR	NR	NR
Freeway centerline miles under lane control	NR	NR	NR	NR	0	1	NR	NR
Communication Links								
<i>Freeway centerline miles covered by the following type of communication</i>								
Twisted pair cable	0	0	0	0	0	0	0	0
Coaxial cable	0	0	160	40	0	0	0	0
Fiber-optic cable	0	0	40	160	4	12	0	0
Microwave radio	0	0	0	0	0	0	0	0

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Hudson Valley Region 8		New York State DOT-Long Island Region 10		New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005	1999	2005	1999	2005
Other	0	0	0	0	0	0	0	0
ITS Standards Used Related to Freeway Management								
ATMS Data Dictionary Sections 1 and 2 (ITE TM 1.01)	No		No		No		No	
ATMS Data Dictionary Sections 3 and 4 (ITE TM 1.02)	No		No		No		No	
Message Set for External TMC Communication (ITE-9604-1)	No		No		Yes		No	
NTCIP Class B Profile (AASHTO TS 3.3)	No		No		Yes		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		Yes		No	
NTCIP Object Definitions for Environmental Sensor Stations (AASHTO TS 3.7)	No		No		No		No	
NTICP Object Definitions for Dynamic Message Signs (AASHTO TS 3.6)	Yes		No		Yes		No	
NTICP Object Definitions for Highway Advisory Radio (AASHTO TS 3.HAR)	No		No		Yes		No	
NTICP Object Definitions for Ramp Meter Control (AASHTO TS 3.RMC)	No		No		No		No	
NTICP Object Definitions for Transportation Sensor Systems (AASHTO TS 3.TSS)	No		No		Yes		No	
NTICP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		Yes		No	
Would agency be willing to participate in testing of ITS Standards?	Yes		Yes		Yes		NR	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?								
	Yes		No		Yes		Yes	
INCIDENT MANAGEMENT SECTION								
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		No	
Privately operated service patrol vehicles operated under public contract	Yes		No		No		No	
Total number of freeway miles patrolled by these services	150	150	125	165	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	NR	NR	NR	NR	NR	NR	NR	NR
Police patrols	NR	NR	NR	NR	NR	NR	NR	NR
Computer algorithms linked to traffic surveillance equipment	NR	NR	150	190	NR	NR	NR	NR
CCTV	NR	NR	NR	NR	NR	NR	NR	NR
Private sector sources (e.g., Shadow Traffic, SmartRoutes)	NR	NR	NR	NR	NR	NR	NR	NR
Other (e.g., free cell phone call to an area radio system, etc.)	0	0	NR	NR	NR	NR	NR	NR
Procedures in place for Freeway Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	Yes		Yes		No		No	
Inter-agency incident management admin. team that meets regularly	Yes		No		No		No	
Major incident response team that responds to major incidents	No		No		No		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Central focal point for facilitating the two-way flow of information among agencies responding to an incident?								
The central focal point is a Freeway or Traffic Management Center	No		No		No		No	
The central focal point is a Police, Fire or joint dispatch center	No		Yes		No		No	
The central focal point is another center	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								

Freeway Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Hudson Valley Region 8		New York State DOT-Long Island Region 10		New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005	1999	2005	1999	2005
Two-way radio	Yes		No		No		No	
800 MHz trunked radio	Yes		No		No		No	
Cellular telephone	Yes		No		No		No	
Hand-held (i.e., walkie-talkie)	Yes		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
<u>Fire</u>								
Two-way radio	Yes		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	Yes		No		No		No	
Automated data systems (i.e., CAD)	Yes		No		No		No	
<u>DOT</u>								
Two-way radio	Yes		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	Yes		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	Yes		No		No		No	
Cellular telephone	Yes		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Which police agencies typically respond to incidents on freeways?								
State Police	Yes		Yes		No		Yes	
County Police or Sheriff	Yes		Yes		No		No	
City Police	No		Yes		No		No	
Who provides on-site emergency medical response?								
Fire	Yes		Yes		No		No	
Emergency Management Service Agency	Yes		Yes		No		Yes	
Private hospital	No		No		No		Yes	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	No		No		NR		No	
Is the Incident Command System used to manage incident scenes?	Yes		DK		NR		Yes	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	Yes		Yes		No		Yes	
On-scene command post used to manage activities of responding agencies?	Yes		DK		NR		No	
Are there communication linkages to a communications traffic/freeway mgt center?	No		NR		NR		NR	

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Hudson Valley Region 8		New York State DOT-Long Island Region 10		New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005	1999	2005	1999	2005
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	No		No		NR		No	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	DK		No		NR		Yes	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	No		NR		NR		Yes	
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		No		NR		Yes	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	No		No		NR		Yes	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	>36		DK		NR		0-24	
Have policies or procedures for quick removal of vehicles?	No		No		NR		Yes	
Is Total Station equipment used to investigate major incidents?	DK		Yes		NR		No	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	Yes		Yes		No		No	
Rotation with companies under contract?	No		Yes		No		Yes	
Separate lists kept for light and heavy response and for specialty recovery?	Yes		NR		NR		No	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	Considered		DK		NR		No	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Transcom		Totals	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		9	
FREEWAY MANAGEMENT SECTION				
Number of freeway centerline miles that agency owns or maintains	NR		11,118	
Number of freeway centerline miles that is used for planning	NR		10,236	
Number of freeway entrance ramps that agency owns, operates or maintains	NR		637	
Number of freeway entrance ramps that is used for planning	NR		994	
Type of facilities used to conduct freeway/incident management activities				
Activities housed in a free-standing dedicated building?	No		1	
Activities housed in a building shared with other activities?	No		6	
Activities conducted in a dedicated control room?	No		5	
Control room contains operator console(s)?	No		1	
Control room contains electronic wall map?	No		0	
Control room contains CCTV display(s)?	No		1	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		5	
Facilities are electronically linked to other transportation mgt facilities?	No		2	
Staffing and hours of operation of freeway/incident management activities				
Number of full-time agency staff members	NR		0	0
Number of full time contractor staff members	NR		0	0
Number of part-time agency staff members	NR		0	0
Number of part-time contractor staff members	NR		0	0
Staffed 24 hours day by agency staff or by others	NR		0	0
Staffed during peak hours only by agency staff or by others	NR		0	0
Staffed by others during off-peak hours	No		0	0
Agency staff perform transportation management as an ancillary duty	No		1	1
Agency staff dedicated to transportation management duty	No		3	3
Types of operations conducted for freeway/incident management				
Incident detection and management?	No		5	5
This metropolitan area?	No		4	4
Other metropolitan area?	No		2	2
Statewide?	No		2	2
Monitoring and troubleshooting status of system components?	No		5	5
Manual override of ramp metering rates at freeway on-ramps?	No		1	1
Operating transportation management roadside devices?	No		6	6
Radio communications with other agencies?	No		3	3
Exchange of electronic data with other agencies such as computer aided dispatch?	No		3	3
Real-Time Traffic Data Collection Technologies				

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Transcom		Totals	
	1999	2005	1999	2005
Total number of miles under surveillance with real-time data collection tech.	19	500	309	1,051
<i>Number of Stations with data collection technologies</i>				
Loop detectors	0	0	3,498	2,782
Video imaging detectors	0	0	137	42
Probe readers (elec. toll tags, transit vehicles, other technology)	0	0	21	119
Microwave radar	0	0	312	300
Other (e.g., acoustic detectors)	0	0	0	0
<i>Number of Miles covered with data collection technologies</i>				
Loop detectors	0	0	130	230
Video imaging detectors	0	0	20	0
Probe readers (elec. toll tags, transit vehicles, other technology)	0	0	16	190
Microwave radar	0	0	70	70
Other (e.g., acoustic detectors)	0	0	0	0
Variable Message Signs (VMS) on Freeways				
Candidate locations for deployment of VMS where VMS has been deployed	NR	NR	262	419
Candidate locations for deployment of VMS	NR	NR	61	224
Roadside Technologies used to Distribute Traveler Information				
Total number of miles where information is distributed	200	200	385	612
<i>Number deployed</i>				
Highway advisory radio	NR	NR	27	70
In-vehicle signing	0	0	0	0
Portable variable message signs	0	0	48	78
Other	0	0	0	0
<i>Miles covered</i>				
Highway advisory radio	200	200	385	612
In-vehicle signing	0	0	0	0
Portable variable message signs	0	0	0	0
Other	0	0	0	0
Ramp Meters on Freeways				
Number of entrance ramp meters operated under isolated control	NR	NR	0	0
Number of entrance ramp meters operated under central control	NR	NR	77	0
Number of entrance ramp meters that provide preemption for emergency vehicles	NR	NR	0	0
Number of entrance ramp meters that provide priority for transit vehicles	NR	NR	4	0
Total number of metered ramps	NR	NR	81	0
Freeway centerline miles under lane control	NR	NR	0	1
Communication Links				
<i>Freeway centerline miles covered by the following type of communication</i>				
Twisted pair cable	0	0	0	0
Coaxial cable	0	0	160	40
Fiber-optic cable	0	0	114	364
Microwave radio	0	0	122	0

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Transcom		Totals	
	1999	2005	1999	2005
Other	0	0	0	0
ITS Standards Used Related to Freeway Management				
ATMS Data Dictionary Sections 1 and 2 (ITE TM 1.01)	No		1	
ATMS Data Dictionary Sections 3 and 4 (ITE TM 1.02)	No		1	
Message Set for External TMC Communication (ITE-9604-1)	No		2	
NTCIP Class B Profile (AASHTO TS 3.3)	No		2	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		2	
NTCIP Object Definitions for Environmental Sensor Stations (AASHTO TS 3.7)	No		1	
NTICP Object Definitions for Dynamic Message Signs (AASHTO TS 3.6)	No		3	
NTICP Object Definitions for Highway Advisory Radio (AASHTO TS 3.HAR)	No		2	
NTICP Object Definitions for Ramp Meter Control (AASHTO TS 3.RMC)	No		0	
NTICP Object Definitions for Transportation Sensor Systems (AASHTO TS 3.TSS)	No		2	
NTICP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		2	
Would agency be willing to participate in testing of ITS Standards?	NR		5	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?				
	NR		3	
INCIDENT MANAGEMENT SECTION				
Use of Service Patrols to Assist in Detection and Response to Incidents				
Publicly operated service patrol vehicles	No		2	
Privately operated service patrol vehicles operated under public contract	No		1	
Total number of freeway miles patrolled by these services	NR	NR	449	519
Miles Covered by Methods to Detect and Verify Incidents				
Free cellular phone call to a dedicated phone number other than 911	NR	NR	122	122
Police patrols	NR	NR	428	428
Computer algorithms linked to traffic surveillance equipment	19	500	318	914
CCTV	NR	NR	113	188
Private sector sources (e.g., Shadow Traffic, SmartRoutes)	NR	NR	122	122
Other (e.g., free cell phone call to an area radio system, etc.)	NR	NR	0	0
Procedures in place for Freeway Incident Response?				
Working agreement(s)/arrangement(s) with other agencies	No		4	
Inter-agency incident management admin. team that meets regularly	No		3	
Major incident response team that responds to major incidents	No		2	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		0	
Central focal point for facilitating the two-way flow of information among agencies responding to an incident?				
The central focal point is a Freeway or Traffic Management Center	No		2	
The central focal point is a Police, Fire or joint dispatch center	No		1	
The central focal point is another center	No		0	
Methods of Communication Used On-Site at an Incident				
<u>Police</u>				

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Transcom		Totals	
	1999	2005	1999	2005
Two-way radio	No		3	
800 MHz trunked radio	No		3	
Cellular telephone	No		2	
Hand-held (i.e., walkie-talkie)	No		3	
Automated data systems (i.e., CAD)	No		0	
<u>Fire</u>				
Two-way radio	No		2	
800 MHz trunked radio	No		0	
Cellular telephone	No		0	
Hand-held (i.e., walkie-talkie)	No		1	
Automated data systems (i.e., CAD)	No		1	
<u>DOT</u>				
Two-way radio	No		3	
800 MHz trunked radio	No		1	
Cellular telephone	No		3	
Hand-held (i.e., walkie-talkie)	No		1	
Automated data systems (i.e., CAD)	No		0	
<u>Towing</u>				
Two-way radio	No		1	
800 MHz trunked radio	No		1	
Cellular telephone	No		2	
Hand-held (i.e., walkie-talkie)	No		0	
Automated data systems (i.e., CAD)	No		0	
Which police agencies typically respond to incidents on freeways?				
State Police	No		5	
County Police or Sheriff	No		2	
City Police	No		1	
Who provides on-site emergency medical response?				
Fire	No		2	
Emergency Management Service Agency	No		4	
Private hospital	No		3	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	NR		2	
Is the Incident Command System used to manage incident scenes?	NR		3	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?				
Specified by state law?	No		1	
Formal agreement?	No		0	
Not specified or don't know?	No		4	
On-scene command post used to manage activities of responding agencies?	NR		3	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		2	

Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Transcom		Totals	
	1999	2005	1999	2005
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	NR		1	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	NR		2	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		3	
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		2	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		3	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		0	
Have policies or procedures for quick removal of vehicles?	NR		3	
Is Total Station equipment used to investigate major incidents?	NR		3	
Handling of Towing Responses to Incidents				
Formal contract based on qualifications?	No		4	
Rotation with companies under contract?	No		4	
Separate lists kept for light and heavy response and for specialty recovery?	NR		3	
Rotation list with minimal qualifications?	No		0	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	NR		0	
DK: Don't know				
NR: No Response				
Leg: Legislation or action being planned				

Appendix D
Freeway Management Integration

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Freeway Management Section				
Agencies your agency provides freeway travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	short survey	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM
Share Infrastructure	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM
<i>Incident Management Agencies</i>				
Provide Information	short survey	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM
Share Infrastructure	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	Bergen County, Newark City
Share Infrastructure	None listed	None listed	None listed	Bergen County, Newark City
Coordinate Operation	None listed	None listed	None listed	Bergen County, Newark City
Public Transit Operators				
Provide Information	None listed	None listed	None listed	New Jersey Transit Corporation

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	New Jersey Transit Corporation
Receiving real-time information via electronic means from others				
<i>Incident Management agencies from which your agency receives incident severity, location, and type information</i>				
	short survey	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions				
	None listed	None listed	None listed	Newark City
Public Transit operators from which your agency receives				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
<i>freeway travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives freeway travel times derived from vehicles probes</i>				
	None listed	None listed	None listed	Port Authority of NY and NJ, New Jersey Highway Authority, New Jersey Turnpike Authority, MTA Bridges & Tunnels, New York State Thruway Authority
Freeway Incident Management Section				
Agencies your agency provides incident severity, location, and type info. and/or shares infrastructure and/or coordinates operation				
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	Bergen County, Newark City
Share Infrastructure	None listed	None listed	None listed	Bergen County, Newark City
Coordinate Operation	None listed	None listed	None listed	Bergen County, Newark City
Emergency Management Agencies				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey State Police
Share Infrastructure	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey State Police
Coordinate Operation	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey State Police
<i>Freeway Management Agencies</i>				
Provide Information	short survey	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM
Share Infrastructure	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, TRANSCOM
Public Transit Operators				
Provide Information	None listed	None listed	None listed	New Jersey Transit Corporation
Share Infrastructure	None listed	None listed	None listed	New Jersey Transit Corporation
Coordinate Operation	None listed	None listed	None listed	New Jersey Transit Corporation
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives incident clearance and/or incident severity and type				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	Mount Vernon City Police Department, New Jersey State Police
Receive Arterial Incident Severity Information	None listed	None listed	None listed	Mount Vernon City Police Department, New Jersey State Police
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions				
	None listed	None listed	None listed	Newark City, Bergen County
Freeway Management agencies from which your agency receives				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
<i>freeway travel times, speeds, and conditions</i>				
	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Freeway Management Section				
Agencies your agency provides freeway travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	New Jersey Department of Transportation(NJ), TRANSCOM	None listed	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM
Share Infrastructure	None listed	None listed	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Coordinate Operation	New Jersey Department of Transportation(NJ), TRANSCOM	None listed	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM
<i>Incident Management Agencies</i>				
Provide Information	New Jersey Department of Transportation(NJ), TRANSCOM	None listed	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM
Share Infrastructure	None listed	None listed	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Coordinate Operation	New Jersey Department of Transportation(NJ), TRANSCOM	None listed	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM
Arterial Management Agencies				
Provide Information	None listed	None listed	New Jersey Department of Transportation	New Jersey Department of Transportation
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	New Jersey Department of Transportation	New Jersey Department of Transportation
Public Transit Operators				
Provide Information	None listed	None listed	Academy Lines Incorporated, New Jersey Transit Corporation, Suburban Transit Corporation	Academy Lines Incorporated, New Jersey Transit Corporation, Suburban Transit Corporation

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
<i>Incident Management agencies from which your agency receives incident severity, location, and type information</i>				
	TRANSCOM	None listed	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions				
	None listed	None listed	None listed	None listed
Public Transit operators from which your agency receives				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
<i>freeway travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives freeway travel times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Freeway Incident Management Section				
Agencies your agency provides incident severity, location, and type info. and/or shares infrastructure and/or coordinates operation				
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Emergency Management Agencies				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	Bayonne City Fire Department, Bergen County Emergency Medical Services, Elizabeth City Emergency Medical Services, Elizabeth City Fire Department, Jersey City Emergency Medical Services, Lindenhurst Fire District, Lindenhurst Fire District Emergency Medical, New Jersey Highway Authority, Newark City Fire Department	Bayonne City Fire Department, Bergen County Emergency Medical Services, Elizabeth City Emergency Medical Services, Elizabeth City Fire Department, Jersey City Emergency Medical Services, Lindenhurst Fire District, Lindenhurst Fire District Emergency Medical, New Jersey Highway Authority, Newark City Fire Department
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Port Authority of New York and New Jersey, TRANSCOM	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Port Authority of New York and New Jersey, TRANSCOM
Share Infrastructure	None listed	None listed	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	New Jersey Department of Transportation, New Jersey Highway Authority, Port Authority of New York and New Jersey, TRANSCOM	New Jersey Department of Transportation, New Jersey Highway Authority, Port Authority of New York and New Jersey, TRANSCOM
Public Transit Operators				
Provide Information	None listed	None listed	Academy Lines Incorporated, New Jersey Transit Corporation, Suburban Transit Corporation	Academy Lines Incorporated, New Jersey Transit Corporation, Suburban Transit Corporation
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives incident clearance and/or incident severity and type				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions				
Freeway Management agencies from which your agency receives				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, TRANSCOM

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
Agency Returned Survey?	Yes	
Freeway Management Section		
Agencies your agency provides freeway travel times, speeds, and conditions information, share infrastructure or coordinates operation		
<i>Freeway Management Agencies</i>		
Provide Information	New York State Department of Transportation, New York State DOT-Hudson Valley Region 8	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Thruway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, Transcom
Share Infrastructure	New York State Department of Transportation, New York State DOT-Hudson Valley Region 8, New York State Thruway Authority	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, Transcom

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
Coordinate Operation	New York State Department of Transportation, New York State DOT-Hudson Valley Region 8, New York State Thruway Authority, Transcom	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, Palisades Interstate Park Commission, Port Authority of New York and New Jersey
<i>Incident Management Agencies</i>		
Provide Information	New York State Department of Transportation, New York State DOT-Hudson Valley Region 8, New York State Thruway Authority, Transcom	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, Palisades Interstate Park Commission, Port Authority of New York and New Jersey
Share Infrastructure	New York State Department of Transportation, New York State DOT-Hudson Valley Region 8, New York State Thruway Authority	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, Transcom

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
Coordinate Operation	New York State Department of Transportation, New York State DOT-Hudson Valley Region 8, New York State Thruway Authority	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, Palisades Interstate Park Commission, Port Authority of New York and New Jersey, Transcom
Arterial Management Agencies		
Provide Information	None listed	Westchester County, Yonkers City Traffic Engineering Division, White Plains County
Share Infrastructure	None listed	Westchester County, Yonkers City Traffic Engineering Division, White Plains County
Coordinate Operation	None listed	Westchester County, Yonkers City Traffic Engineering Division, White Plains County
Public Transit Operators		
Provide Information	None listed	Metro-North Commuter Railroad, New York City Department of Transportation, Putnam County Transit, Rockland Coaches Incorporated, Westchester County Department of Transportation

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
Share Infrastructure	None listed	Metro-North Commuter Railroad, New York City Department of Transportation, Putnam County Transit, Rockland Coaches Incorporated, Westchester County Department of Transportation
Coordinate Operation	None listed	Metro-North Commuter Railroad, New York City Department of Transportation, Putnam County Transit, Rockland Coaches Incorporated, Westchester County Department of Transportation
<u>Receiving real-time information via electronic means from others</u>		
<i>Incident Management agencies from which your agency receives incident severity, location, and type information</i>		
	New York City Department of Transportation, New York State Department of Transportation Region, New York State Thruway Authority, Transcom	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, Palisades Interstate Park Commission, Port Authority of New York and New Jersey
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>		
	None listed	Westchester County, Yonkers City Traffic Engineering Division, White Plains County
<i>Public Transit operators from which your agency receives</i>		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
<i>freeway travel times derived from vehicle probes</i>	None listed	Metro-North Commuter Railroad, New York City Department of Transportation, New York City Transit Authority, Westchester County Department of Transportation
<i>Toll Collection agencies from which your agency receives freeway travel times derived from vehicles probes</i>	None listed	New York State Thruway Authority, Transcom Transmit
Freeway Incident Management Section		
Agencies your agency provides incident severity, location, and type info. and/or shares infrastructure and/or coordinates operation		
Arterial Management Agencies		
Provide Information	New York State Department of Transportation Region	New York City Department of Transportation, Westchester County, Yonkers City Traffic Engineering Division, White Plains County
Share Infrastructure	New York State Department of Transportation Region	New York City Department of Transportation, Westchester County, Yonkers City Traffic Engineering Division, White Plains County
Coordinate Operation	New York State Department of Transportation Region	New York City Department of Transportation, Westchester County, Yonkers City Traffic Engineering Division, White Plains County
Emergency Management Agencies		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
<i>Freeway Management Agencies</i>		
Provide Information	New York State DOT-Hudson Valley Region 8, New York State Thruway Authority, Transcom	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City DOT, New York State DOT, Palisades Interstate Park Commission, Port Authority of New York and New Jersey
Share Infrastructure	New York State DOT-Hudson Valley Region 8, New York State Thruway Authority, Transcom	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City DOT, New York State DOT, Palisades Interstate Park Commission, Port Authority of New York and New Jersey

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
Coordinate Operation	New York State DOT-Hudson Valley Region 8, New York State Thruway Authority, Transcom	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City DOT, New York State DOT, Palisades Interstate Park Commission, Port Authority of New York and New Jersey
Public Transit Operators		
Provide Information	None listed	Metro-North Commuter Railroad, New York City Department of Transportation, Westchester County Department of Transportation
Share Infrastructure	None listed	Metro-North Commuter Railroad, New York City Department of Transportation, Westchester County Department of Transportation
Coordinate Operation	None listed	Metro-North Commuter Railroad, New York City Department of Transportation, Westchester County Department of Transportation
Receiving real-time information via electronic means from others		
Emergency Management agencies from which your agency receives incident clearance and/or incident severity and type		
Receive Arterial Incident Clearance Information	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions		
	None listed	Westchester County, Yonkers City Traffic Engineering Division, White Plains County
Freeway Management agencies from which your agency receives		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8	
	1999	2005
<i>freeway travel times, speeds, and conditions</i>	New York State DOT-Hudson Valley Region 8, New York State Thruway Authority, Transcom, I-95 Corridor Coalition	Connecticut Department of Transportation, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, New York State Department of Transportation, Palisades Interstate Park Commission, Port Authority of New York and New Jersey

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
Agency Returned Survey?	Yes	
Freeway Management Section		
Agencies your agency provides freeway travel times, speeds, and conditions information, share infrastructure or coordinates operation		
<i>Freeway Management Agencies</i>		
Provide Information	New York State Department of Transportation, TRANSCOM	New York City Department of Transportation, New York State Department of Transportation Region, Port Authority of New York and New Jersey
Share Infrastructure	None listed	New York City Department of Transportation, TRANSCOM

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
Coordinate Operation	TRANSCOM	New York City Department of Transportation
<i>Incident Management Agencies</i>		
Provide Information	New York State Department of Transportation Region, New York State Department of Transportation, TRANSCOM	New York City Department of Transportation, Port Authority of New York and New Jersey
Share Infrastructure	None listed	New York City Department of Transportation

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
Coordinate Operation	None listed	New York City Department of Transportation, New York State Department of Transportation
Arterial Management Agencies		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
Public Transit Operators		
Provide Information	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>		
<i>Incident Management agencies from which your agency receives incident severity, location, and type information</i>		
	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>		
	None listed	None listed
<i>Public Transit operators from which your agency receives</i>		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
<i>freeway travel times derived from vehicle probes</i>	None listed	None listed
<i>Toll Collection agencies from which your agency receives freeway travel times derived from vehicles probes</i>		
	None listed	Port Authority of NY and NJ, MTA Bridges & Tunnels
Freeway Incident Management Section		
Agencies your agency provides incident severity, location, and type info. and/or shares infrastructure and/or coordinates operation		
Arterial Management Agencies		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
Emergency Management Agencies		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
<i>Freeway Management Agencies</i>		
Provide Information	TRANSCOM	None listed
Share Infrastructure	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
Coordinate Operation	None listed	None listed
Public Transit Operators		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
Receiving real-time information via electronic means from others		
Emergency Management agencies from which your agency receives incident clearance and/or incident severity and type		
Receive Arterial Incident Clearance Information	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions		
Freeway Management agencies from which your agency receives	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Long Island Region 10	
	1999	2005
<i>freeway travel times, speeds, and conditions</i>	TRANSCOM	New York City Department of Transportation, New York State Department of Transportation Region, Port Authority of New York and New Jersey

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
Agency Returned Survey?	Yes	
Freeway Management Section		
Agencies your agency provides freeway travel times, speeds, and conditions information, share infrastructure or coordinates operation		
<i>Freeway Management Agencies</i>		
Provide Information	New York State DOT-Hudson Valley Region 8, Transcom	New York State DOT-Hudson Valley Region 8, Transcom
Share Infrastructure	New York State DOT-Hudson Valley Region 8, Transcom	New York State DOT-Hudson Valley Region 8, Transcom

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
Coordinate Operation	New York State DOT-Hudson Valley Region 8, Transcom	New York State DOT-Hudson Valley Region 8, Transcom
<i>Incident Management Agencies</i>		
Provide Information	Transcom	New York State DOT, Transcom
Share Infrastructure	Transcom	New York State DOT, Transcom

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
Coordinate Operation	Transcom	New York State DOT, Transcom
Arterial Management Agencies		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	New York State DOT-Hudson Valley Region 8	New York State DOT-Hudson Valley Region 8
Public Transit Operators		
Provide Information	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>		
<i>Incident Management agencies from which your agency receives incident severity, location, and type information</i>		
	Transcom	Transcom
<u>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</u>		
	None listed	New York State DOT-Hudson Valley Region 8, Transcom
<u>Public Transit operators from which your agency receives</u>		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
<i>freeway travel times derived from vehicle probes</i>	None listed	Transcom
<i>Toll Collection agencies from which your agency receives freeway travel times derived from vehicles probes</i>		
	Transcom	Transcom
Freeway Incident Management Section		
Agencies your agency provides incident severity, location, and type info. and/or shares infrastructure and/or coordinates operation		
Arterial Management Agencies		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
Emergency Management Agencies		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
<i>Freeway Management Agencies</i>		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
Coordinate Operation	None listed	None listed
Public Transit Operators		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
Receiving real-time information via electronic means from others		
Emergency Management agencies from which your agency receives incident clearance and/or incident severity and type		
Receive Arterial Incident Clearance Information	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions		
Freeway Management agencies from which your agency receives		

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority	
	1999	2005
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Freeway Management Section				
<u>Agencies your agency provides freeway travel times, speeds, and conditions information, share infrastructure or coordinates operation</u>				
<i>Freeway Management Agencies</i>				
Provide Information	New Jersey Department of Transportation(NJ), Port Authority of New York and New Jersey, TRANSCOM	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				
Provide Information	Port Authority of New York and New Jersey, TRANSCOM	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	short survey	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Incident Management agencies from which your agency receives incident severity, location, and type information</i>	Port Authority of New York and New Jersey, TRANSCOM	None listed	short survey	None listed
<u>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</u>				
	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
<i>freeway travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives freeway travel times derived from vehicles probes</i>	None listed	None listed	short survey	None listed
Freeway Incident Management Section				
Agencies your agency provides incident severity, location, and type info. and/or shares infrastructure and/or coordinates operation				
Arterial Management Agencies				
Provide Information	None listed	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Emergency Management Agencies				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
Provide Information	None listed	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	TRANSCOM	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives incident clearance and/or incident severity and type				
Receive Arterial Incident Clearance Information	None listed	None listed	short survey	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions				
None listed	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				

Freeway Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Palisades Interstate Park Commission		Transcom	
	1999	2005	1999	2005
<i>freeway travel times, speeds, and conditions</i>	TRANSCOM	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Appendix E
Freeway Management Information Collection and Dissemination

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Freeway Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	NR	Traffic volumes, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Intermodal (air, rail, water) connections
Archived by your agency	NR	NR	Traffic volumes, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Intermodal (air, rail, water) connections

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Transferred to another agency by your agency			Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Weather conditions, Intermodal (air, rail, water) connections
	NR	NR		
Importance of making information available to the public				
Ranked High			Traffic speeds, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones	
	NR			
Ranked Medium			Probe vehicles, Intermodal (air, rail, water) connections, Emergency/evacuation routes and procedures	
	NR			
Ranked Low			Traffic volumes, Lane occupancy, Vehicle classification, Highway operations coordination information	
	NR			
Groups that make requests for the data			Universities, State DOT personnel, Media (I.e., TV stations, radio stations), MPOs, Consultants, Advanced Traveler Information Systems (ATIS) provi	
	NR			

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
What is the data used for?	NR		Traffic analysis, Construction impact determination, Planning, Roadway impact analysis	
Methods used to disseminate freeway information to the public				
Technologies your agency uses to disseminate:	Pagers or personal data assistants	NR	Telephone system, Pagers or personal data assistants, E-mail or other direct PC communication, Facsimile	Internet Web sites
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	Telephone system, E-mail or other direct PC communication, Facsimile	Internet Web sites, Pagers or personal data assistants, Kiosks
Internet web site reporting freeway conditions	NR		NR	
Telephone system for reporting freeway information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		TRANSCOM NJ TMAs (construction and incident data) Media (incident data via telephone call) SmartRoute (construction and incident data) Metro Traffic (incident via telephone call) Shadow Traffic (incident via telephone call)	
Freeway Incident Management Section				
Methods used to distribute incident location and severity information to the public				

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Department of Transportation(CT)		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	Pagers or personal data assistants	Kiosks	Telephone system, Internet Web sites, Kiosks	Internet Web sites, Kiosks
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	Telephone system, Internet Web sites, Kiosks	Internet Web sites, Kiosks, Kiosks
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		TRANSCOM NJ TMAs (construction and incident data) Media (incident data via telephone call) SmartRoute (construction and incident data) Metro Traffic (incident via telephone call) Shadow Traffic (incident via telephone call)	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Freeway Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Traffic volumes, Traffic speeds, Vehicle classification, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	NR	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information
Archived by your agency	Traffic volumes	NR	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Transferred to another agency by your agency	Weather conditions, Incidents, Current work zones, Scheduled work zones	NR	NR	NR
Importance of making information available to the public				
Ranked High	Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information		Traffic speeds, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	
Ranked Medium	NR		Vehicle classification	
Ranked Low	NR		Traffic volumes, Lane occupancy, Probe vehicles, Ramp queues, Ramp meter preemption's, Metering rate, Intermodal (air, rail, water) connections	
Groups that make requests for the data	State DOT personnel, Federal DOT personnel, Consultants, Advanced Traveler Information Systems (ATIS) provi		Universities, Federal DOT personnel, State DOT personnel, Media (I.e., TV stations, radio stations), Consultants	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
What is the data used for?	Traffic analysis, Construction impact determination, Planning, Incident detection algorithm development, Roadway impact analysis		Traffic analysis, Construction impact determination, Planning, Roadway impact analysis, Dissemination to the public	
Methods used to disseminate freeway information to the public				
Technologies your agency uses to disseminate:	Internet Web sites, Telephone system	NR	Telephone system, Internet Web sites, Cell phone/voice	Telephone system, Internet Web sites
Technologies your agency (through another agency or org.) uses to disseminate:	Pagers or personal data assistants	Kiosks	Dedicated cable TV, Kiosks	Dedicated cable TV, Pagers or personal data assistants, Kiosks, E-mail or other direct PC communication, Cell phone/voice
Internet web site reporting freeway conditions	NR		www.state.nj.us/turnpike	
Telephone system for reporting freeway information to the public	1-732-PARKWAY		800-336-5875	
Organizations your agency sends information for dissemination to the public	Transcom		Transcom Shadow Traffic Metro Traffic	
Freeway Incident Management Section				
Methods used to distribute incident location and severity information to the public				

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	Telephone system, E-mail or other direct PC communication	Telephone system, E-mail or other direct PC communication
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	Dedicated cable TV, Telephone system, Internet Web sites, Pagers or personal data assistants, E-mail or other direct PC communication, Facsimile
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		800-336-5875	
Organizations your agency sends information for dissemination to the public	NR		Transcom Metro Traffic Shadow Traffic	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Freeway Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Road conditions, Weather conditions, Incidents, Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Intermodal (air, rail, water) connections, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Current work zones, Incidents, Scheduled work zones	NR
Archived by your agency	Road conditions, Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Intermodal (air, rail, water) connections, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Current work zones, Incidents, Scheduled work zones	NR

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Transferred to another agency by your agency		Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Intermodal (air, rail, water) connections, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic speeds, Current work zones, Incidents, Scheduled work zones	NR
Importance of making information available to the public				
Ranked High		Traffic speeds, Road conditions, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Intermodal (air, rail, water) connections, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic speeds, Current work zones, Incidents, Scheduled work zones	
Ranked Medium		Traffic volumes, Lane occupancy	NR	
Ranked Low		Vehicle classification, Probe vehicles, Ramp queues, Ramp meter preemption's, Metering rate	Traffic volumes	
Groups that make requests for the data		State DOT personnel, Media (i.e., TV stations, radio stations), MPOs, Advanced Traveler Information Systems (ATIS) provi	Universities, State DOT personnel, Media (i.e., TV stations, radio stations), Consultants, Advanced Traveler Information Systems (ATIS) provi	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
What is the data used for?	Planning, Dissemination to the public		Traffic analysis, Planning, Dissemination to the public	
Methods used to disseminate freeway information to the public				
Technologies your agency uses to disseminate:	Telephone system, Internet Web sites, Pagers or personal data assistants, Kiosks, E-mail or other direct PC communication, Cell phone/voice, Facsimile	Internet Web sites, Pagers or personal data assistants, Kiosks, E-mail or other direct PC communication, In-vehicle navigation systems, Cell phone/voice, Cell phone/data, Facsimile	Facsimile	Internet Web sites
Technologies your agency (through another agency or org.) uses to disseminate:	Telephone system, Internet Web sites, Pagers or personal data assistants, Kiosks	Dedicated cable TV, Internet Web sites, Pagers or personal data assistants, Kiosks	Dedicated cable TV, Internet Web sites	NR
Internet web site reporting freeway conditions	www.hudsonvalleytraveler.com www.dot.state.ny.us		www.metrocommute.com	
Telephone system for reporting freeway information to the public	Active in Fall 1999		NR	
Organizations your agency sends information for dissemination to the public	Transcom Metro Networks Smart Route Systems Metro Commute NYS Thruway Authority Westchester County DPW Westchester County DOT NYS Police		Transcom Metro Traffic Shadow Traffic Cablevision Various Radio Stations	
Freeway Incident Management Section				
Methods used to distribute incident location and severity information to the public				

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	Telephone system, Internet Web sites, Pagers or personal data assistants, Kiosks, E-mail or other direct PC communication, Cell phone/voice, Cell phone/data, Facsimile	Telephone system	Facsimile	Internet Web sites
Technologies your agency (through another agency or org.) uses to disseminate:	Dedicated cable TV, Telephone system, Internet Web sites, Pagers or personal data assistants, Kiosks, E-mail or other direct PC communication, Cell phone/voice, Cell phone/data, Facsimile	Dedicated cable TV, Telephone system, Facsimile	Dedicated cable TV, Internet Web sites	NR
Internet web site reporting incident information	I-Travel MDI www.hudsonvalleytraveler.com		www.metrocommute.com	
Telephone system for reporting incident information to the public	Fall of 1999		NR	
Organizations your agency sends information for dissemination to the public	Transcom Metro Networks		Transcom Shadow Traffic Metro Traffic	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Freeway Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Ramp queues, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Lane occupancy, Vehicle classification, Probe vehicles, Ramp queues, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Incidents, Current work zones, Scheduled work zones	NR
Archived by your agency	Traffic volumes, Traffic speeds, Vehicle classification, Probe vehicles, Ramp queues, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic volumes, Traffic speeds, Vehicle classification, Probe vehicles, Ramp queues, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	NR	NR

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005
Transferred to another agency by your agency	Traffic speeds, Probe vehicles, Ramp queues, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	Traffic speeds, Probe vehicles, Ramp queues, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information	NR	NR
Importance of making information available to the public				
Ranked High	Traffic speeds, Probe vehicles, Ramp queues, Route designations (snow emergency, etc.), Weather conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information		Incidents	
Ranked Medium	NR		Current work zones, Scheduled work zones	
Ranked Low	Traffic volumes, Vehicle classification		NR	
Groups that make requests for the data	Universities, State DOT personnel, Media (I.e., TV stations, radio stations), MPOs, Consultants, Advanced Traveler Information Systems (ATIS) provi		State DOT personnel, Media (I.e., TV stations, radio stations)	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005
What is the data used for?	Traffic analysis, Construction impact determination, Planning, Incident detection algorithm development, Roadway impact analysis, Dissemination to the public		Planning, Dissemination to the public	
Methods used to disseminate freeway information to the public				
Technologies your agency uses to disseminate:	Telephone system, Internet Web sites, Kiosks	Telephone system, Internet Web sites, Kiosks	Telephone system, Pagers or personal data assistants	NR
Technologies your agency (through another agency or org.) uses to disseminate:	Pagers or personal data assistants, Kiosks, Facsimile	Internet Web sites, Pagers or personal data assistants, Kiosks, Facsimile	NR	NR
Internet web site reporting freeway conditions	www.thruway.state.ny.us		NR	
Telephone system for reporting freeway information to the public	1-800-Thruway		201.768.6001	
Organizations your agency sends information for dissemination to the public	Transcom		TRANSCOM	
Freeway Incident Management Section				
Methods used to distribute incident location and severity information to the public				

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State Thruway Authority		Palisades Interstate Park Commission	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	Telephone system, Pagers or personal data assistants	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		201.768.6001	
Organizations your agency sends information for dissemination to the public	NR		Transcom	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Transcom	
	1999	2005
Agency Returned Survey?	Yes	
Freeway Management Section		
Data collected, archived, and/or transferred to another agency		
Collected by your agency	NR	NR
Archived by your agency	NR	NR

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Transcom	
	1999	2005
Transferred to another agency by your agency	NR	NR
Importance of making information available to the public		
Ranked High	NR	
Ranked Medium	NR	
Ranked Low	NR	
Groups that make requests for the data	NR	

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Transcom	
	1999	2005
What is the data used for?	NR	
Methods used to disseminate freeway information to the public		
Technologies your agency uses to disseminate:	Pagers or personal data assistants, Kiosks	Dedicated cable TV, Telephone system, Internet Web sites, Pagers or personal data assistants, Interactive TV, Kiosks, E-mail or other direct PC communication, In-vehicle navigation systems
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR
Internet web site reporting freeway conditions	NR	
Telephone system for reporting freeway information to the public	NR	
Organizations your agency sends information for dissemination to the public	NR	
Freeway Incident Management Section		
Methods used to distribute incident location and severity information to the public		

Data Collection and Dissemination: Freeway Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Transcom	
	1999	2005
Technologies your agency uses to disseminate:	Pagers or personal data assistants, Kiosks	Dedicated cable TV, Telephone system, Internet Web sites, Pagers or personal data assistants, Interactive TV, Kiosks, E-mail or other direct PC communication, In-vehicle navigation systems
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR
Internet web site reporting incident information	NR	
Telephone system for reporting incident information to the public	NR	
Organizations your agency sends information for dissemination to the public	NR	

Appendix F
Arterial Management Components

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	NR		130		NR		150	
Number of arterial miles that is used for planning	NR		130		NR		200	
Number of highway-rail intersections that agency maintains	NR		12		NR		5	
Number of highway-rail intersections that is used for planning	NR		0		NR		0	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		No	
Activities housed in a building shared with other activities?	No		No		No		Yes	
Activities conducted in a dedicated control room?	No		No		No		Yes	
Control room contains operator console(s)?	No		No		No		Yes	
Control room contains electronic wall map?	No		No		No		No	
Control room contains CCTV display(s)?	No		No		No		Yes	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		Yes		No		No	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		Yes	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	NR		NR		NR		8	
Number of full time contractor staff members	NR		NR		NR		0	
Number of part-time agency staff members	NR		NR		NR		NR	
Number of part-time contractor staff members	NR		NR		NR		NR	
Staffed 24 hours day by agency staff or by others	NR		NR		NR		NR	
Staffed during peak hours only by agency staff or by others	NR		NR		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		No		No	
Agency staff dedicated to transportation management duty	No		No		No		Yes	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		No		Yes	
This metropolitan area?	No		No		No		Yes	
Other metropolitan area?	No		No		No		No	
Monitoring and troubleshooting status of system components?	No		No		No		Yes	
Radio communications with other agencies?	No		No		No		Yes	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		No	
Manual override of traffic signal timing plans	No		No		No		Yes	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		No		Yes	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	All roads in county except state routes		State routes only		All roads in incorporated area except state and county routes		All roads in county	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	38	44	115	125	333	350	260	290
Number of signalized intersections operated by agency but owned by another	2	3	0	0	NR	NR	470	530
Total number of signalized intersections operated by agency	40	47	115	125	333	350	730	820
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	32	38	17	NR	262	300	730	820
Under real-time traffic adaptive control using advanced software	0	0	0	NR	0	0	0	NR
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	2	4	5	NR	12	40	26	28
Allow signal priority for transit vehicles	0	0	0	NR	0	0	0	200
Within 200 feet of a highway-rail intersection	0	0	1	NR	0	0	6	6
Within 200 feet of a highway-rail intersection that adjust signal timing	0	0	1	NR	8	8	3	3
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	NR		1998		WAPITI 49A 1999		11/98 Y2K patches	
How often do you update signal timing?	ADT's to ITE Handbook		Regularly, as needed dictate		3 years or when construction warrants it		as needed basis	
Software used and number of signalized intersections under control (1999, 2005)	NR		Peek CL MATS, 0, 27 PEEK SMARTWAYS, 17, 0		TCS-II Closed Loop, NR, NR WAPITI 49A, Traffic View for Closed Loop, NR, NR		Eagle Comtrac, 730, 820	
Controllers used to control signals								
NEMA	40	47	115	NR	0	0	730	820
170/179	0	0	0	0	0	0	0	0
2070 controller	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	NR	NR	NR	NR	0	3
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	0	3
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	NR	NR	NR	NR	NR	30	200	500
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	0	0	0	0	NR	20	200	500
Video detection cameras	0	0	0	0	NR	10	85	200
Probe readers reading toll tags	0	0	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	5	12	12
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	0	0
VMS controlling parking access	NR	NR	NR	NR	NR	NR	0	0
<i>Miles covered</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	50	50
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	NR	NR	NR	NR	0	14	NR	NR
Candidate locations for deployment of VMS	NR	NR	NR	NR	NR	19	NR	NR
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	0	0	17	17	250	300	671	570
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	0	0	NR	10	0	0	16	200
Other (e.g., wireless, dial-up modems, leased lines, etc.)	0	0	17	27	0	0	43	50
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	Yes		Yes		NR		No	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	No		Yes		Yes		Yes	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		Yes	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		Yes	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	0	50
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	500	500	0	0	0	0	200	200
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	0	0	50	150
CCTV	0	0	0	0	0	0	85	200
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	200	200
Other	0	0	0	0	0	0	200	200
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		Yes		Yes		Yes	
Inter-agency incident management admin. team that meets regularly	Yes		No		Yes		Yes	
Major incident response team that responds to major incidents	Yes		No		Yes		Yes	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		Yes	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	No		No		No		Yes	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		Yes	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		Yes	
<u>Fire</u>								
Two-way radio	No		No		No		Yes	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		Yes	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	Yes		No		No		Yes	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	Yes		No		No		Yes	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		Yes	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	Yes		No		No		No	
County Police or Sheriff	Yes		No		No		Yes	
City Police	No		No		Yes		No	
Who provides on-site emergency medical response?								
Fire	No		No		No		Yes	
Emergency Management Service Agency	No		No		No		No	
Private hospital	Yes		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	Yes		NR		Yes		DK	
Is the Incident Command System used to manage incident scenes?	DK		NR		Yes		DK	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	Yes		No		Yes		Yes	
On-scene command post used to manage activities of responding agencies?	DK		NR		Yes		Yes	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		Yes		Yes	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	DK		NR		No		Yes	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	DK		NR		DK		DK	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	No		NR		Yes		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		NR		No		No	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		NR		No		Yes	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		NR		DK		0-24	
Have policies or procedures for quick removal of vehicles?	NR		NR		No		Yes	
Is Total Station equipment used to investigate major incidents?	NR		NR		NR		NR	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		No	
Rotation with companies under contract?	No		No		Yes		No	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		NR		NR	
Rotation list with minimal qualifications?	No		No		No		Yes	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	DK		NR		Yes		No	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	NR		1,040		NR		NR	
Number of arterial miles that is used for planning	NR		1,040		NR		NR	
Number of highway-rail intersections that agency maintains	30		NR		NR		NR	
Number of highway-rail intersections that is used for planning	NR		NR		NR		NR	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		No	
Activities housed in a building shared with other activities?	No		No		No		No	
Activities conducted in a dedicated control room?	No		Yes		No		No	
Control room contains operator console(s)?	No		Yes		No		No	
Control room contains electronic wall map?	No		Yes		No		No	
Control room contains CCTV display(s)?	No		No		No		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		Yes		No		No	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	NR		2		NR		NR	
Number of full time contractor staff members	NR		NR		NR		NR	
Number of part-time agency staff members	NR		NR		NR		NR	
Number of part-time contractor staff members	NR		NR		NR		NR	
Staffed 24 hours day by agency staff or by others	NR		NR		NR		NR	
Staffed during peak hours only by agency staff or by others	NR		NR		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		No		No	
Agency staff dedicated to transportation management duty	No		No		No		No	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		No		No	
This metropolitan area?	No		No		No		No	
Other metropolitan area?	No		No		No		No	
Monitoring and troubleshooting status of system components?	No		No		No		No	
Radio communications with other agencies?	No		Yes		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		No	
Manual override of traffic signal timing plans	No		Yes		No		No	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	NR		All roads in incorporated area		NR		NR	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	NR	NR	291	NR	NR	NR	NR	NR
Number of signalized intersections operated by agency but owned by another	NR	NR	0	NR	NR	NR	NR	NR
Total number of signalized intersections operated by agency	139	155	291	NR	530	540	425	500
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	124	155	0	NR	518	528	15	25
Under real-time traffic adaptive control using advanced software	0	NR	NR	NR	0	NR	0	0
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	0	NR	NR	NR	5	9	425	500
Allow signal priority for transit vehicles	0	NR	NR	NR	0	NR	20	100
Within 200 feet of a highway-rail intersection	1	1	NR	NR	25	NR	20	25
Within 200 feet of a highway-rail intersection that adjust signal timing	1	1	NR	NR	25	NR	20	25
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	NR		8/99		NR		NR	
How often do you update signal timing?	NR		all the time		NR		NR	
Software used and number of signalized intersections under control (1999, 2005)	NR		COMPUTRAN, 291, NR		NR		NR	
Controllers used to control signals								
NEMA	0	0	291	NR	0	0	0	0
170/179	0	0	0	0	0	0	0	0
2070 controller	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	NR	NR	NR	NR	NR	NR
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	0	0
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	NR	NR	NR	NR	NR	NR	NR	NR
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	0	0	0	0	0	0	0	0
Video detection cameras	0	0	0	0	0	0	0	0
Probe readers reading toll tags	0	0	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
VMS controlling parking access	NR	NR	NR	NR	NR	NR	NR	NR
<i>Miles covered</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	10	NR	NR	3	NR	NR	NR	NR
Candidate locations for deployment of VMS	10	NR	NR	NR	NR	NR	NR	NR
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	0	0	0	0	0	0	0	0
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	0	0	0	0	0	0	0	0
Other (e.g., wireless, dial-up modems, leased lines, etc.)	0	0	291	0	0	0	0	0
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	NR		No		NR		NR	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	NR		Yes		NR		NR	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		No	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	0	0	0	0	0	0	0	0
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	0	0	0	0
CCTV	0	0	0	0	0	0	0	0
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		No		No		No	
Inter-agency incident management admin. team that meets regularly	No		No		No		No	
Major incident response team that responds to major incidents	No		No		No		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Fire</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	No		No		No		No	
County Police or Sheriff	No		No		No		No	
City Police	No		No		No		No	
Who provides on-site emergency medical response?								
Fire	No		No		No		No	
Emergency Management Service Agency	No		No		No		No	
Private hospital	No		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	NR		NR		NR		NR	
Is the Incident Command System used to manage incident scenes?	NR		NR		NR		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	No		No		No		No	
On-scene command post used to manage activities of responding agencies?	NR		NR		NR		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		NR		NR	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	NR		NR		NR		NR	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	NR		NR		NR		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		NR		NR		NR	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		NR		NR		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		NR		NR		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		NR		NR		NR	
Have policies or procedures for quick removal of vehicles?	NR		NR		NR		NR	
Is Total Station equipment used to investigate major incidents?	NR		NR		NR		No	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		No	
Rotation with companies under contract?	No		No		No		No	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		NR		NR	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	NR		NR		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Fairfield Town(CT)		Greenburgh Town		Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	60		NR		NR		110	
Number of arterial miles that is used for planning	0		NR		NR		NR	
Number of highway-rail intersections that agency maintains	3		NR		NR		30	
Number of highway-rail intersections that is used for planning	0		NR		NR		NR	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	Yes		No		No		No	
Activities housed in a building shared with other activities?	Yes		No		No		Yes	
Activities conducted in a dedicated control room?	Yes		No		No		No	
Control room contains operator console(s)?	No		No		No		No	
Control room contains electronic wall map?	No		No		No		No	
Control room contains CCTV display(s)?	No		No		No		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	Yes		No		Yes		Yes	
Facilities are electronically linked to other transportation mgt facilities?	Yes		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	8		NR		NR		2	
Number of full time contractor staff members	NR		NR		NR		NR	
Number of part-time agency staff members	0		NR		NR		NR	
Number of part-time contractor staff members	NR		NR		NR		NR	
Staffed 24 hours day by agency staff or by others	agency		NR		NR		NR	
Staffed during peak hours only by agency staff or by others	NR		NR		NR		agency	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		Yes		No	
Agency staff dedicated to transportation management duty	No		No		No		No	
Types of operations conducted for arterial management								
Incident detection and management?	Yes		No		No		No	
This metropolitan area?	Yes		No		No		No	
Other metropolitan area?	No		No		No		No	
Monitoring and troubleshooting status of system components?	Yes		No		No		Yes	
Radio communications with other agencies?	No		No		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		No	
Manual override of traffic signal timing plans	Yes		No		No		No	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	Yes		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Fairfield Town(CT)		Greenburgh Town		Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	State routes only		Operate signals on state and local owned roadways		All roads in county except state routes		All roads in incorporated area except state routes	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	240	NR	50	100	28	43	283	295
Number of signalized intersections operated by agency but owned by another	15	NR	2	2	1	5	NR	NR
Total number of signalized intersections operated by agency	255	NR	50	100	29	48	283	295
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	85	100	0	100	0	0	85	100
Under real-time traffic adaptive control using advanced software	0	0	NR	NR	0	0	0	NR
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	235	250	50	100	29	48	75	NR
Allow signal priority for transit vehicles	23	23	NR	NR	29	48	0	NR
Within 200 feet of a highway-rail intersection	7	7	0	0	0	0	10	NR
Within 200 feet of a highway-rail intersection that adjust signal timing	7	7	NR	NR	0	0	10	NR
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	NR		no central software yet		Will be upgrading this fall		1998	
How often do you update signal timing?	reviewed annually, adjust as appropriate		annually		Never Have Yet		once a year	
Software used and number of signalized intersections under control (1999, 2005)	Traconet, 225, NR		NR		ARIES, 29, NR ZONE MONITOR III, 24, NR		BiTrans QuicNet 4, 85, NR	
Controllers used to control signals								
NEMA	275	NR	50	100	29	48	180	NR
170/179	0	0	0	0	0	0	103	NR
2070 controller	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Fairfield Town(CT)		Greenburgh Town		Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	NR	NR	13	13	NR	NR
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	0	0
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	13	13	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	NR	NR	NR	NR	29	48	NR	NR
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	0	0	0	0	29	48	0	0
Video detection cameras	0	0	0	0	0	5	0	0
Probe readers reading toll tags	0	0	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	20	25	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
VMS controlling parking access	NR	NR	NR	NR	NR	NR	NR	NR
<i>Miles covered</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	72	NR	NR	NR	NR	NR	NR	NR
Candidate locations for deployment of VMS	NR	NR	NR	NR	NR	NR	NR	NR
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	60	NR	0	0	20	33	69	NR
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	0	0	NR	75	0	5	0	0
Other (e.g., wireless, dial-up modems, leased lines, etc.)	85	100	0	25	9	10	16	0
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Fairfield Town(CT)		Greenburgh Town		Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	No		No		Yes		Yes	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	Yes		No		Yes		No	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		No	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	0	0	0	0	0	0	0	0
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	0	0	0	0
CCTV	0	0	0	0	0	0	0	0
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		No		No		No	
Inter-agency incident management admin. team that meets regularly	No		No		No		No	
Major incident response team that responds to major incidents	No		No		No		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Fire</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Fairfield Town(CT)		Greenburgh Town		Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	No		No		No		No	
County Police or Sheriff	No		No		No		No	
City Police	No		No		No		No	
Who provides on-site emergency medical response?								
Fire	No		No		No		No	
Emergency Management Service Agency	No		No		No		No	
Private hospital	No		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	NR		NR		NR		NR	
Is the Incident Command System used to manage incident scenes?	NR		NR		NR		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	No		No		No		No	
On-scene command post used to manage activities of responding agencies?	NR		NR		NR		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		NR		NR	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	NR		NR		NR		NR	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	NR		NR		NR		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		NR		NR		NR	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Fairfield Town(CT)		Greenburgh Town		Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		NR		NR		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		NR		NR		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		NR		NR		NR	
Have policies or procedures for quick removal of vehicles?	NR		NR		NR		NR	
Is Total Station equipment used to investigate major incidents?	NR		No		DK		NR	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		No	
Rotation with companies under contract?	No		No		No		No	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		NR		NR	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	NR		NR		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Hunterdon County		Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	115		NR		NR		NR	
Number of arterial miles that is used for planning	75		NR		NR		NR	
Number of highway-rail intersections that agency maintains	0		NR		30		NR	
Number of highway-rail intersections that is used for planning	0		NR		NR		NR	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		No	
Activities housed in a building shared with other activities?	No		No		No		No	
Activities conducted in a dedicated control room?	No		No		No		No	
Control room contains operator console(s)?	No		No		No		No	
Control room contains electronic wall map?	No		No		No		No	
Control room contains CCTV display(s)?	No		No		No		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	Yes		No		No		No	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	1		NR		NR		NR	
Number of full time contractor staff members	0		NR		NR		NR	
Number of part-time agency staff members	0		NR		NR		NR	
Number of part-time contractor staff members	0		NR		NR		NR	
Staffed 24 hours day by agency staff or by others	NR		NR		NR		NR	
Staffed during peak hours only by agency staff or by others	agency		NR		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		No		No	
Agency staff dedicated to transportation management duty	No		No		No		No	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		No		No	
This metropolitan area?	No		No		No		No	
Other metropolitan area?	No		No		No		No	
Monitoring and troubleshooting status of system components?	Yes		No		No		No	
Radio communications with other agencies?	No		No		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		No	
Manual override of traffic signal timing plans	Yes		No		No		No	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Hunterdon County		Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	All roads in incorporated area except state routes		NR		NR		NR	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	225	240	NR	NR	NR	NR	NR	NR
Number of signalized intersections operated by agency but owned by another	20	25	NR	NR	NR	NR	NR	NR
Total number of signalized intersections operated by agency	245	265	253	260	NR	NR	149	149
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	142	160	253	260	0	25	0	10
Under real-time traffic adaptive control using advanced software	0	0	0	0	0	5	0	NR
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	0	5	6	100	10	20	0	NR
Allow signal priority for transit vehicles	0	0	0	0	0	0	0	0
Within 200 feet of a highway-rail intersection	5	5	2	2	10	10	0	0
Within 200 feet of a highway-rail intersection that adjust signal timing	3	3	2	2	10	10	0	0
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	1994		NR		NR		NR	
How often do you update signal timing?	seldom		NR		NR		NR	
Software used and number of signalized intersections under control (1999, 2005)	BiTrans QuickNet, 150, 170		NR		NR		NR	
Controllers used to control signals								
NEMA	0	0	0	0	0	0	0	0
170/179	345	265	0	0	0	0	0	0
2070 controller	0	10	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Hunterdon County		Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	NR	NR	NR	NR	0	0
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	0	0
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	12	30	NR	NR	NR	NR	NR	NR
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	4	10	0	0	0	0	0	0
Video detection cameras	8	20	0	0	0	0	0	0
Probe readers reading toll tags	0	0	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
VMS controlling parking access	NR	NR	NR	NR	NR	NR	NR	NR
<i>Miles covered</i>								
Highway Advisory Radio	NR	NR	30	30	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	0	0	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	NR	NR	13	13	NR	NR	0	0
Candidate locations for deployment of VMS	NR	NR	13	13	NR	NR	0	0
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	130	135	0	0	0	0	0	0
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	0	0	0	0	0	0	0	0
Other (e.g., wireless, dial-up modems, leased lines, etc.)	31	50	0	0	0	0	0	0
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Hunterdon County		Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	Yes		NR		NR		NR	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	No		NR		NR		NR	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		No	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	0	0	0	0	0	0	0	0
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	0	0	0	0
CCTV	0	0	38	70	0	0	0	0
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		No		No		No	
Inter-agency incident management admin. team that meets regularly	No		No		No		No	
Major incident response team that responds to major incidents	No		No		No		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Fire</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Hunterdon County		Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	No		No		No		No	
County Police or Sheriff	No		No		No		No	
City Police	No		No		No		No	
Who provides on-site emergency medical response?								
Fire	No		No		No		No	
Emergency Management Service Agency	No		No		No		No	
Private hospital	No		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	NR		NR		NR		NR	
Is the Incident Command System used to manage incident scenes?	NR		NR		NR		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	No		No		No		No	
On-scene command post used to manage activities of responding agencies?	NR		NR		NR		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		NR		NR	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	NR		NR		NR		NR	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	NR		NR		NR		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		NR		NR		NR	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Hunterdon County		Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		NR		NR		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		NR		NR		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		NR		NR		NR	
Have policies or procedures for quick removal of vehicles?	NR		NR		NR		NR	
Is Total Station equipment used to investigate major incidents?	NR		NR		NR		NR	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		No	
Rotation with companies under contract?	No		No		No		No	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		NR		NR	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	NR		NR		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Nassau County		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	NR		NR		NR		NR	
Number of arterial miles that is used for planning	NR		NR		NR		NR	
Number of highway-rail intersections that agency maintains	NR		NR		NR		NR	
Number of highway-rail intersections that is used for planning	NR		NR		NR		NR	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		No	
Activities housed in a building shared with other activities?	Yes		No		No		No	
Activities conducted in a dedicated control room?	Yes		No		No		No	
Control room contains operator console(s)?	Yes		No		No		No	
Control room contains electronic wall map?	Yes		No		No		No	
Control room contains CCTV display(s)?	No		No		No		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	Yes		No		No		No	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	2		NR		NR		NR	
Number of full time contractor staff members	2		NR		NR		NR	
Number of part-time agency staff members	NR		NR		NR		NR	
Number of part-time contractor staff members	NR		NR		NR		NR	
Staffed 24 hours day by agency staff or by others	NR		NR		NR		NR	
Staffed during peak hours only by agency staff or by others	NR		NR		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		No		No	
Agency staff dedicated to transportation management duty	No		No		No		No	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		No		No	
This metropolitan area?	No		No		No		No	
Other metropolitan area?	No		No		No		No	
Monitoring and troubleshooting status of system components?	Yes		No		No		No	
Radio communications with other agencies?	No		No		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		No	
Manual override of traffic signal timing plans	No		No		No		No	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Nassau County		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	All roads in incorporated area except state routes		NR		NR		NR	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	1,575	1,600	NR	NR	NR	NR	NR	NR
Number of signalized intersections operated by agency but owned by another	0	0	NR	NR	NR	NR	NR	NR
Total number of signalized intersections operated by agency	1,575	1,600	163	243	3	NR	0	NR
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	687	800	163	243	3	NR	0	NR
Under real-time traffic adaptive control using advanced software	0	0	0	0	0	NR	0	NR
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	20	25	0	0	0	NR	4	NR
Allow signal priority for transit vehicles	0	0	0	0	0	NR	0	NR
Within 200 feet of a highway-rail intersection	12	12	0	0	0	NR	0	NR
Within 200 feet of a highway-rail intersection that adjust signal timing	7	10	0	0	0	NR	0	NR
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	1990		NR		NR		NR	
How often do you update signal timing?	not regularly, based on complaints		NR		NR		NR	
Software used and number of signalized intersections under control (1999, 2005)	COMPUTRAN MTCS, 687, 800		NR		NR		NR	
Controllers used to control signals								
NEMA	1,575	1,600	0	0	0	0	0	0
170/179	0	0	0	0	0	0	0	0
2070 controller	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Nassau County		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	NR	NR	NR	NR	NR	NR
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	0	0
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	379	416	NR	NR	NR	NR	NR	NR
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	379	410	0	0	0	0	0	0
Video detection cameras	0	6	0	0	0	0	0	0
Probe readers reading toll tags	0	0	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
VMS controlling parking access	NR	NR	NR	NR	NR	NR	NR	NR
<i>Miles covered</i>								
Highway Advisory Radio	NR	NR	32	66	6	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	0	0	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	NR	NR	10	25	41	NR	NR	NR
Candidate locations for deployment of VMS	NR	NR	10	25	NR	NR	NR	NR
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	687	800	0	0	0	0	0	0
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	250	750	0	0	0	0	0	0
Other (e.g., wireless, dial-up modems, leased lines, etc.)	0	0	0	0	0	0	0	0
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Nassau County		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	Yes		NR		NR		NR	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	No		NR		NR		NR	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		No	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	0	0	0	0	0	0	0	0
Computer algorithms linked to traffic surveillance equipment	0	10	91	125	0	0	0	0
CCTV	0	0	80	115	4	NR	0	0
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		No		No		No	
Inter-agency incident management admin. team that meets regularly	No		No		No		No	
Major incident response team that responds to major incidents	No		No		No		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	Yes		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Fire</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	Yes		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Nassau County		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	Yes		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	No		No		No		No	
County Police or Sheriff	Yes		No		No		No	
City Police	No		No		No		No	
Who provides on-site emergency medical response?								
Fire	Yes		No		No		No	
Emergency Management Service Agency	No		No		No		No	
Private hospital	No		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	DK		NR		NR		NR	
Is the Incident Command System used to manage incident scenes?	DK		NR		NR		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	Yes		No		No		No	
On-scene command post used to manage activities of responding agencies?	DK		NR		NR		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		NR		NR	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	DK		NR		NR		NR	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	DK		NR		NR		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		NR		NR		NR	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Nassau County		New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		NR		NR		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	Yes		NR		NR		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	DK		NR		NR		NR	
Have policies or procedures for quick removal of vehicles?	NR		NR		NR		NR	
Is Total Station equipment used to investigate major incidents?	DK		NR		NR		NR	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		No	
Rotation with companies under contract?	No		No		No		No	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		NR		NR	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	DK		NR		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York City DOT		New York City DOT for Queens County		New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	6,375		NR		NR		NR	
Number of arterial miles that is used for planning	6,375		NR		NR		NR	
Number of highway-rail intersections that agency maintains	0		6		NR		3	
Number of highway-rail intersections that is used for planning	0		NR		NR		3	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		Yes	
Activities housed in a building shared with other activities?	No		No		No		Yes	
Activities conducted in a dedicated control room?	Yes		No		No		Yes	
Control room contains operator console(s)?	Yes		No		No		Yes	
Control room contains electronic wall map?	Yes		No		No		Yes	
Control room contains CCTV display(s)?	Yes		No		No		Yes	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		No		No		Yes	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	25		NR		NR		3	
Number of full time contractor staff members	50		NR		NR		3	
Number of part-time agency staff members	NR		NR		NR		NR	
Number of part-time contractor staff members	NR		NR		NR		NR	
Staffed 24 hours day by agency staff or by others	agency		NR		NR		others	
Staffed during peak hours only by agency staff or by others	NR		NR		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		No		No	
Agency staff dedicated to transportation management duty	Yes		No		No		Yes	
Types of operations conducted for arterial management								
Incident detection and management?	Yes		No		No		Yes	
This metropolitan area?	Yes		No		No		Yes	
Other metropolitan area?	No		No		No		Yes	
Monitoring and troubleshooting status of system components?	Yes		No		No		Yes	
Radio communications with other agencies?	No		No		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		No	
Manual override of traffic signal timing plans	Yes		No		No		Yes	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	Yes		No		No		Yes	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York City DOT		New York City DOT for Queens County		New York State DOT- Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	All roads in county		NR		NR		State routes only	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	10,800	11,800	NR	NR	NR	NR	1,200	1,300
Number of signalized intersections operated by agency but owned by another	NR	NR	NR	NR	NR	NR	0	0
Total number of signalized intersections operated by agency	10,800	11,800	11,650	8,200	1,000	1,200	1,200	1,300
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	6,000	8,200	6,000	8,200	100	300	175	1,300
Under real-time traffic adaptive control using advanced software	0	0	0	0	0	0	0	100
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	30	40	12	12	0	0	250	750
Allow signal priority for transit vehicles	1	5	0	40	0	100	0	100
Within 200 feet of a highway-rail intersection	0	0	0	0	NR	NR	3	3
Within 200 feet of a highway-rail intersection that adjust signal timing	0	0	0	0	0	0	3	3
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	June 30, 1999		NR		NR		Ongoing	
How often do you update signal timing?	Almost Daily		NR		NR		They are on a 2 year cycle	
Software used and number of signalized intersections under control (1999, 2005)	VMS, UNIX, and VxWorks, 6,000, 8,200		NR		NR		SCOOT/SCAT/RT, NR, 100 Closed Loop, 300, 200 NYS ITAP, 850, 0 NYS ITAP Inform, 50, 0	
Controllers used to control signals								
NEMA	0	0	0	0	0	0	0	0
170/179	170	200	0	0	0	0	1,210	1,300
2070 controller	0	50	0	0	0	0	0	0
Other	0	3000	0	0	0	0	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York City DOT		New York City DOT for Queens County		New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	NR	NR	NR	NR	NR	NR
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	0	0
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	100	300	NR	NR	NR	NR	250	500
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	90	150	0	0	0	0	250	500
Video detection cameras	10	100	0	0	0	0	0	0
Probe readers reading toll tags	0	50	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	0	3	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	0	0	NR	NR	NR	NR	NR	NR
VMS controlling parking access	0	5	NR	NR	NR	NR	NR	NR
<i>Miles covered</i>								
Highway Advisory Radio	0	10	25	70	NR	NR	NR	NR
In-Vehicle Signing (IVS)	0	10	NR	NR	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	22	27	50	80	3	75	NR	NR
Candidate locations for deployment of VMS	22	27	50	80	17	97	NR	NR
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	0	0	0	0	0	0	400	NR
Coaxial cable	2,700	2,700	0	0	0	0	100	100
Fiber-optic cable	0	500	0	0	0	0	50	300
Other (e.g., wireless, dial-up modems, leased lines, etc.)	3200	5010	0	0	0	0	200	900
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	Yes		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	Yes		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	Yes		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	Yes		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York City DOT		New York City DOT for Queens County		New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	Yes		NR		NR		No	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	Yes		NR		NR		No	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		No	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		Yes		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	25	70	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	20	50	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	0	0	0	0	0	0	0	0
Computer algorithms linked to traffic surveillance equipment	0	0	0	20	0	100	0	0
CCTV	50	500	5	50	0	25	0	0
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	Yes		No		No		No	
Inter-agency incident management admin. team that meets regularly	Yes		No		No		No	
Major incident response team that responds to major incidents	No		No		No		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	Yes		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	Yes		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Fire</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York City DOT		New York City DOT for Queens County		New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	Yes		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	Yes		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	No		No		No		No	
County Police or Sheriff	No		No		No		No	
City Police	Yes		No		No		No	
Who provides on-site emergency medical response?								
Fire	Yes		No		No		No	
Emergency Management Service Agency	No		No		No		No	
Private hospital	No		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	Yes		NR		NR		NR	
Is the Incident Command System used to manage incident scenes?	DK		NR		NR		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	Yes		No		No		No	
On-scene command post used to manage activities of responding agencies?	No		NR		NR		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		NR		NR	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	No		NR		NR		NR	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	DK		NR		NR		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	No		NR		NR		NR	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York City DOT		New York City DOT for Queens County		New York State DOT- Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	No		NR		NR		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	Yes		NR		NR		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	0-24		NR		NR		NR	
Have policies or procedures for quick removal of vehicles?	Yes		NR		NR		NR	
Is Total Station equipment used to investigate major incidents?	No		NR		NR		NR	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	Yes		No		No		No	
Rotation with companies under contract?	No		No		No		No	
Separate lists kept for light and heavy response and for specialty recovery?	No		NR		NR		NR	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	No		NR		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Region 11		Newark City(NJ)		Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	NR		NR		NR		NR	
Number of arterial miles that is used for planning	NR		NR		NR		NR	
Number of highway-rail intersections that agency maintains	NR		NR		6		12	
Number of highway-rail intersections that is used for planning	NR		NR		NR		NR	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		No	
Activities housed in a building shared with other activities?	No		No		No		No	
Activities conducted in a dedicated control room?	No		No		No		No	
Control room contains operator console(s)?	No		No		No		No	
Control room contains electronic wall map?	No		No		No		No	
Control room contains CCTV display(s)?	No		No		No		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		No		No		No	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	NR		NR		NR		NR	
Number of full time contractor staff members	NR		NR		NR		NR	
Number of part-time agency staff members	NR		NR		NR		NR	
Number of part-time contractor staff members	NR		NR		NR		NR	
Staffed 24 hours day by agency staff or by others	NR		NR		NR		NR	
Staffed during peak hours only by agency staff or by others	NR		NR		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		No		No	
Agency staff dedicated to transportation management duty	No		No		No		No	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		No		No	
This metropolitan area?	No		No		No		No	
Other metropolitan area?	No		No		No		No	
Monitoring and troubleshooting status of system components?	No		No		No		No	
Radio communications with other agencies?	No		No		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		No	
Manual override of traffic signal timing plans	No		No		No		No	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Region 11		Newark City(NJ)		Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	NR		NR		NR		NR	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	NR	NR	NR	NR	NR	NR	NR	NR
Number of signalized intersections operated by agency but owned by another	NR	NR	NR	NR	NR	NR	NR	NR
Total number of signalized intersections operated by agency	NR	NR	445	455	78	83	313	350
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	NR	NR	120	250	63	65	4	64
Under real-time traffic adaptive control using advanced software	NR	NR	0	0	0	0	0	0
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	NR	NR	0	60	15	16	27	80
Allow signal priority for transit vehicles	NR	NR	0	60	7	8	0	0
Within 200 feet of a highway-rail intersection	NR	NR	0	0	2	2	0	0
Within 200 feet of a highway-rail intersection that adjust signal timing	NR	NR	1	20	1	1	0	0
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	NR		NR		NR		NR	
How often do you update signal timing?	NR		NR		NR		NR	
Software used and number of signalized intersections under control (1999, 2005)	NR		NR		NR		NR	
Controllers used to control signals								
NEMA	0	0	0	0	0	0	0	0
170/179	0	0	0	0	0	0	0	0
2070 controller	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Region 11		Newark City(NJ)		Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	0	1	NR	NR	NR	NR
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	0	0
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	NR	NR	NR	NR	NR	NR	NR	NR
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	0	0	0	0	0	0	0	0
Video detection cameras	0	0	0	0	0	0	0	0
Probe readers reading toll tags	0	0	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
VMS controlling parking access	NR	NR	NR	NR	NR	NR	NR	NR
<i>Miles covered</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	NR	NR	10	20	0	4	NR	NR
Candidate locations for deployment of VMS	NR	NR	10	20	4	4	NR	NR
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	0	0	0	0	0	0	0	0
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	0	0	0	0	0	0	0	0
Other (e.g., wireless, dial-up modems, leased lines, etc.)	0	0	0	0	0	0	0	0
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Region 11		Newark City(NJ)		Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	NR		NR		NR		NR	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	NR		NR		NR		NR	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		No	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	0	0	0	0	0	0	0	0
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	0	0	2	24
CCTV	0	0	0	0	6	10	0	0
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		No		No		No	
Inter-agency incident management admin. team that meets regularly	No		No		No		No	
Major incident response team that responds to major incidents	No		No		No		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Fire</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Region 11		Newark City(NJ)		Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
<u>Towing</u>								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	No		No		No		No	
County Police or Sheriff	No		No		No		No	
City Police	No		No		No		No	
Who provides on-site emergency medical response?								
Fire	No		No		No		No	
Emergency Management Service Agency	No		No		No		No	
Private hospital	No		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	NR		NR		NR		NR	
Is the Incident Command System used to manage incident scenes?	NR		NR		NR		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		No		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	No		No		No		No	
On-scene command post used to manage activities of responding agencies?	NR		NR		NR		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		NR		NR	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	NR		NR		NR		NR	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	NR		NR		NR		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		NR		NR		NR	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	New York State DOT- Region 11		Newark City(NJ)		Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		NR		NR		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		NR		NR		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		NR		NR		NR	
Have policies or procedures for quick removal of vehicles?	NR		NR		NR		NR	
Is Total Station equipment used to investigate major incidents?	NR		NR		NR		NR	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		No	
Rotation with companies under contract?	No		No		No		No	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		NR		NR	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	NR		NR		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Ramapo Town(NJ)		Smithtown Town		Somerset County		Stamford City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	241		NR		245		NR	
Number of arterial miles that is used for planning	0		NR		45		NR	
Number of highway-rail intersections that agency maintains	0		NR		0		4	
Number of highway-rail intersections that is used for planning	0		NR		39		NR	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		No	
Activities housed in a building shared with other activities?	No		No		Yes		No	
Activities conducted in a dedicated control room?	No		No		No		No	
Control room contains operator console(s)?	No		No		No		No	
Control room contains electronic wall map?	No		No		No		No	
Control room contains CCTV display(s)?	No		No		No		No	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		No		Yes		No	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	NR		NR		0		NR	
Number of full time contractor staff members	NR		NR		0		NR	
Number of part-time agency staff members	NR		NR		2		NR	
Number of part-time contractor staff members	NR		NR		0		NR	
Staffed 24 hours day by agency staff or by others	NR		NR		NR		NR	
Staffed during peak hours only by agency staff or by others	NR		NR		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	No		No		No		No	
Agency staff dedicated to transportation management duty	No		No		No		No	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		No		No	
This metropolitan area?	No		No		No		No	
Other metropolitan area?	No		No		No		No	
Monitoring and troubleshooting status of system components?	No		No		Yes		No	
Radio communications with other agencies?	No		No		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		Yes		No	
Manual override of traffic signal timing plans	No		No		Yes		No	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Ramapo Town(NJ)		Smithtown Town		Somerset County		Stamford City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	Operate signals on all roads in the unincorporated area of and villages except state routes.		Operate and maintain signals on town roads. Maintain signals on county road and emergency vehicles pre-emption system on state roads within town of Smithtown.		County routes only		NR	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	NR	NR	60	65	100	115	NR	NR
Number of signalized intersections operated by agency but owned by another	0	0	32	37	0	0	NR	NR
Total number of signalized intersections operated by agency	19	19	92	102	100	115	180	190
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	19	19	7	4	2	5	120	150
Under real-time traffic adaptive control using advanced software	0	0	0	NR	0	0	0	0
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software	NR		NR		NR		NR	
Allow signal preemption for emergency vehicles	19	19	50	NR	2	5	150	150
Allow signal priority for transit vehicles	0	0	50	NR	0	0	0	5
Within 200 feet of a highway-rail intersection	0	0	2	NR	2	2	5	5
Within 200 feet of a highway-rail intersection that adjust signal timing	0	0	2	NR	0	0	5	5
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	none		1998		one year		NR	
How often do you update signal timing?	ground loops		as necessary		two years		NR	
Software used and number of signalized intersections under control (1999, 2005)	NR		Kentron System Software, 7, NR		Peek Closed Loop Mats, 15, 20 PEEK SMARTWAYS, 90, 115		NR	
Controllers used to control signals								
NEMA	0	0	55	NR	0	0	0	0
170/179	0	0	0	0	0	0	0	0
2070 controller	0	0	0	0	0	0	0	0
Other	0	0	21	0	100	115	0	0
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Ramapo Town(NJ)		Smithtown Town		Somerset County		Stamford City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	NR	NR	2	NR	5	25	NR	NR
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	5	25	0	0
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	2	NR	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	NR	NR	NR	NR	100	115	NR	NR
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	0	0	0	0	95	90	0	0
Video detection cameras	0	0	0	0	5	25	0	0
Probe readers reading toll tags	0	0	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
VMS controlling parking access	NR	NR	NR	NR	NR	NR	NR	NR
<i>Miles covered</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	NR	NR	NR	NR	NR	NR	NR	NR
Candidate locations for deployment of VMS	NR	NR	NR	NR	NR	NR	NR	NR
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	0	0	0	0	0	0	0	0
Coaxial cable	0	0	0	0	0	1	0	0
Fiber-optic cable	0	0	0	0	1	5	0	0
Other (e.g., wireless, dial-up modems, leased lines, etc.)	0	0	7	0	1	5	0	0
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		No	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		No	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		No	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Ramapo Town(NJ)		Smithtown Town		Somerset County		Stamford City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	Yes		Yes		Yes		NR	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	No		Yes		No		NR	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		Yes		No	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		No	
Privately operated service patrol vehicles operated under public contract	No		No		No		No	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	NR	NR
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	0	0
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	241	241	0	0	0	0	0	0
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	0	0	0	0
CCTV	0	0	0	0	0	0	0	0
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		No		Yes		No	
Inter-agency incident management admin. team that meets regularly	No		No		No		No	
Major incident response team that responds to major incidents	No		No		Yes		No	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		No	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	Yes		No		Yes		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		Yes		No	
Hand-held (i.e., walkie-talkie)	No		No		Yes		No	
Automated data systems (i.e., CAD)	No		No		Yes		No	
Other	No		No		Yes		No	
<u>Fire</u>								
Two-way radio	Yes		No		Yes		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		Yes		No	
Hand-held (i.e., walkie-talkie)	No		No		Yes		No	
Automated data systems (i.e., CAD)	No		No		Yes		No	
Other	No		No		Yes		No	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Ramapo Town(NJ)		Smithtown Town		Somerset County		Stamford City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	No		No		Yes		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		Yes		No	
Hand-held (i.e., walkie-talkie)	No		No		Yes		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		Yes		No	
<u>Towing</u>								
Two-way radio	No		No		Yes		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		Yes		No	
Hand-held (i.e., walkie-talkie)	No		No		Yes		No	
Automated data systems (i.e., CAD)	No		No		No		No	
Other	No		No		No		No	
Which police agencies typically respond to incidents on arterials?								
State Police	Yes		No		Yes		No	
County Police or Sheriff	Yes		No		No		No	
City Police	Yes		No		Yes		No	
Who provides on-site emergency medical response?								
Fire	Yes		No		No		No	
Emergency Management Service Agency	Yes		No		Yes		No	
Private hospital	No		No		No		No	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	DK		NR		Yes		NR	
Is the Incident Command System used to manage incident scenes?	DK		NR		Yes		NR	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		No		Yes		No	
Formal agreement?	No		No		No		No	
Not specified or don't know?	Yes		No		No		No	
On-scene command post used to manage activities of responding agencies?	DK		NR		Yes		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		Yes		NR	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	DK		NR		Yes		NR	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	DK		NR		DK		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	No		NR		No		NR	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Ramapo Town(NJ)		Smithtown Town		Somerset County		Stamford City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	No		NR		NR		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	No		NR		No		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	DK		NR		DK		NR	
Have policies or procedures for quick removal of vehicles?	Yes		NR		No		NR	
Is Total Station equipment used to investigate major incidents?	No		NR		Yes		NR	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	Yes		No		No		No	
Rotation with companies under contract?	No		No		Yes		No	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		Yes		NR	
Rotation list with minimal qualifications?	No		No		No		No	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	DK		NR		DK		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Union City - New Jersey		Warren County		Westchester County		Totals	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		35	
ARTERIAL MANAGEMENT SECTION								
Number of arterial miles that agency owns or maintains	NR		NR		179		8,645	
Number of arterial miles that is used for planning	NR		NR		20		7,885	
Number of highway-rail intersections that agency maintains	NR		NR		0		141	
Number of highway-rail intersections that is used for planning	NR		NR		0		42	
Type of facilities used to conduct arterial management activities								
Activities housed in a free-standing dedicated building?	No		No		No		2	
Activities housed in a building shared with other activities?	No		No		Yes		7	
Activities conducted in a dedicated control room?	No		No		Yes		7	
Control room contains operator console(s)?	No		No		No		5	
Control room contains electronic wall map?	No		No		Yes		5	
Control room contains CCTV display(s)?	No		No		No		3	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		No		Yes		10	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		2	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	NR		NR		NR		51	
Number of full time contractor staff members	NR		NR		NR		55	
Number of part-time agency staff members	NR		NR		NR		2	
Number of part-time contractor staff members	NR		NR		NR		0	
Staffed 24 hours day by agency staff or by others	NR		NR		NR			
Staffed during peak hours only by agency staff or by others	NR		NR		NR		0	
Staffed by others during off-peak hours	No		No		No		0	
Agency staff perform transportation management as an ancillary duty	No		No		Yes		2	
Agency staff dedicated to transportation management duty	No		No		No		3	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		No		4	
This metropolitan area?	No		No		No		4	
Other metropolitan area?	No		No		No		1	
Monitoring and troubleshooting status of system components?	No		No		Yes		9	
Radio communications with other agencies?	No		No		No		2	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		No		1	
Manual override of traffic signal timing plans	No		No		Yes		8	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		Yes		5	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Union City - New Jersey		Warren County		Westchester County		Totals	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	NR		County routes only		Operate 65 Traffic Signals on county roads, scattered in various municipalities.			
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	NR	NR	2	NR	65	65	15,665	16,432
Number of signalized intersections operated by agency but owned by another	NR	NR	NR	NR	0	NR	542	602
Total number of signalized intersections operated by agency	150	NR	2	NR	65	65	31,702	29,376
<i>Characteristics of signalized intersections that agency operates</i>								
Under closed loop or central system control	0	NR	0	NR	15	36	15,741	22,257
Under real-time traffic adaptive control using advanced software	0	NR	0	NR	0	21	0	126
Using SCOOT	No		No		No		0	
Using SCATS	No		No		No		0	
Name of software	NR		NR		NR			
Allow signal preemption for emergency vehicles	0	NR	0	NR	0	0	1,459	2,261
Allow signal priority for transit vehicles	0	NR	0	NR	0	0	130	689
Within 200 feet of a highway-rail intersection	0	NR	0	NR	0	0	113	80
Within 200 feet of a highway-rail intersection that adjust signal timing	0	NR	0	NR	0	0	109	98
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	NR		NR		1994			
How often do you update signal timing?	NR		NR		upon complaints from motorists			
Software used and number of signalized intersections under control (1999, 2005)	NR		NR		NEMA Firmware, 40, 10 Quicknet 4/MIST or Equal, 0, 36 NYSDOT TAPS Firmware, 32, 20 Modified UTCS System Tra Flow System, 15, 0			
Controllers used to control signals								
NEMA	0	0	0	0	33	5	3,373	2,620
170/179	0	0	0	0	32	60	1,860	1,825
2070 controller	0	0	0	0	0	0	0	60
Other	0	0	1	0	0	0	122	3,115
Technologies Associated with Highway-Rail Intersections								

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Union City - New Jersey		Warren County		Westchester County		Totals	
	1999	2005	1999	2005	1999	2005	1999	2005
Total number of highway-rail intersections under electronic surveillance	0	NR	NR	NR	NR	NR	20	42
<i>Highway-Rail intersection capabilities</i>								
Video surveillance	0	0	0	0	0	0	5	28
Electronic surveillance other than video	0	0	0	0	0	0	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	15	13
Equipped with electronic traffic violator devices	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	NR	NR	NR	NR	15	36	1,085	1,975
<i>Number of signalized intersections with data collection technologies</i>								
Loop detectors	0	0	0	0	15	36	1,062	1,764
Video detection cameras	0	0	0	0	0	0	108	366
Probe readers reading toll tags	0	0	0	0	0	0	0	50
Probe readers reading license plates	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
Roadside Technologies used to Distribute Traveler Information								
<i>Number deployed</i>								
Highway Advisory Radio	NR	NR	NR	NR	NR	NR	32	45
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	0	0
VMS controlling parking access	NR	NR	NR	NR	NR	NR	0	5
<i>Miles covered</i>								
Highway Advisory Radio	0	NR	NR	NR	NR	NR	143	226
In-Vehicle Signing (IVS)	0	NR	NR	NR	NR	NR	0	10
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	0	NR	NR	NR	1	3	232	264
Candidate locations for deployment of VMS	0	NR	NR	NR	2	0	138	285
Communication Technologies								
<i>Signalized intersections communicated with by each type of communication</i>								
Twisted pair cable	0	0	0	0	15	15	2,319	1,870
Coaxial cable	0	0	0	0	0	0	2,800	2,801
Fiber-optic cable	0	0	0	0	0	0	317	1,845
Other (e.g., wireless, dial-up modems, leased lines, etc.)	0	0	0	1	0	21	3,900	6,199
Does agency convey information on highway-rail intersection crossing status to travelers via roadside media such as VMS or HAR?								
	No		No		No		0	
ITS Standards Used Related to Traffic Signal Control								
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		No		1	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		No		0	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		No		1	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		No		1	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		0	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		0	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		1	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Union City - New Jersey		Warren County		Westchester County		Totals	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	NR		No		Yes		11	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	NR		No		Yes		9	
INCIDENT MANAGEMENT ON ARTERIAL STREETS								
Receive information on highway-rail intersection crossing blockages for the purpose of managing incident response?	No		No		No		2	
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		2	
Privately operated service patrol vehicles operated under public contract	No		No		No		0	
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	NR	NR	0	
Miles Covered by Methods to Detect and Verify Incidents								
Free cellular phone call to a dedicated phone number other than 911	0	0	0	0	0	0	20	50
Free cellular phone call to an area radio station	0	0	0	0	0	0	0	0
Police patrols	0	0	0	0	0	0	941	941
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	0	0	143	429
CCTV	0	0	0	0	0	0	268	970
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	200	200
Other	0	0	0	0	0	0	200	200
Procedures in place for Arterial Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	No		No		No		5	
Inter-agency incident management admin. team that meets regularly	No		No		No		4	
Major incident response team that responds to major incidents	No		No		No		4	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		No		1	
Methods of Communication Used On-Site at an Incident								
<u>Police</u>								
Two-way radio	No		Yes		No		5	
800 MHz trunked radio	No		No		No		1	
Cellular telephone	No		No		No		2	
Hand-held (i.e., walkie-talkie)	No		No		No		2	
Automated data systems (i.e., CAD)	No		Yes		No		2	
Other	No		No		No		2	
<u>Fire</u>								
Two-way radio	No		Yes		No		4	
800 MHz trunked radio	No		No		No		1	
Cellular telephone	No		No		No		1	
Hand-held (i.e., walkie-talkie)	No		No		No		1	
Automated data systems (i.e., CAD)	No		No		No		1	
Other	No		No		No		2	

Arterial Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Union City - New Jersey		Warren County		Westchester County		Totals	
	1999	2005	1999	2005	1999	2005	1999	2005
<u>DOT</u>								
Two-way radio	No		Yes		No		5	
800 MHz trunked radio	No		No		No		1	
Cellular telephone	No		Yes		No		5	
Hand-held (i.e., walkie-talkie)	No		No		No		1	
Automated data systems (i.e., CAD)	No		No		No		0	
Other	No		No		No		2	
<u>Towing</u>								
Two-way radio	No		No		No		1	
800 MHz trunked radio	No		No		No		0	
Cellular telephone	No		Yes		No		2	
Hand-held (i.e., walkie-talkie)	No		No		No		1	
Automated data systems (i.e., CAD)	No		No		No		0	
Other	No		No		No		0	
Which police agencies typically respond to incidents on arterials?								
State Police	No		Yes		No		4	
County Police or Sheriff	No		No		No		4	
City Police	No		Yes		No		5	
Who provides on-site emergency medical response?								
Fire	No		No		No		4	
Emergency Management Service Agency	No		No		No		2	
Private hospital	No		No		No		1	
Has a multi-agency contact list been developed in area containing the names, phone numbers, etc. for the appropriate response personnel?	NR		No		NR		4	
Is the Incident Command System used to manage incident scenes?	NR		No		NR		2	
Is there a legal specification by state law or formal agreement as to who is "in charge" at the incident scene?								
Specified by state law?	No		Yes		No		2	
Formal agreement?	No		No		No		0	
Not specified or don't know?	No		No		No		6	
On-scene command post used to manage activities of responding agencies?	NR		DK		NR		3	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		NR		3	
Plan developed and adopted by responding agencies for staging and parking response vehicles and equip. at incident site that minimizes lane blockage and facilitates the re-opening of lanes?	NR		DK		NR		2	
Respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities?	NR		DK		NR		0	
Are overturned tank trucks, which are intact and not leaking, uprighted without first off-loading?	NR		NR		NR		1	

Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Union City - New Jersey		Warren County		Westchester County		Totals	
	1999	2005	1999	2005	1999	2005	1999	2005
Does your state or local jurisdiction have a law that requires drivers involved in property-damage-only accidents to move the vehicles from travel lanes to a safe location to exchange info and wait for police?	NR		NR		NR		0	
Have laws or policies regarding the removal of stalled/abandoned vehicles from freeway shoulders?	NR		NR		NR		3	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		DK		NR		0	
Have policies or procedures for quick removal of vehicles?	NR		NR		NR		3	
Is Total Station equipment used to investigate major incidents?	NR		DK		NR		1	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		2	
Rotation with companies under contract?	No		No		No		2	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		NR		1	
Rotation list with minimal qualifications?	No		No		No		1	
In towing qualifications, do you require towers to be certified under the Towing and Recovery Ass. of America's National Drivers Cert. Program?	NR		NR		NR		1	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Appendix G
Arterial Management Integration

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Babylon Town		Bayonne City(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	Huntington Town, Islip Town, Suffolk County	Suffolk County	None listed	None listed
Coordinate Changes to Timing Plans	Huntington Town, Islip Town, Suffolk County	Huntington Town, Islip Town, Suffolk County	None listed	None listed
Turn over Control of Signals	Suffolk County	Suffolk County	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Babylon Town		Bayonne City(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Babylon Town		Bayonne City(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	short survey	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Babylon Town		Bayonne City(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives</i>				
<i>arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives</i>				
<i>arterial travel times, speeds, and conditions</i>	None listed	None listed	short survey	None listed
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	None listed	None listed	None listed	None listed
Coordinate Changes to Timing Plans	None listed	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives				
arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clifton City(NJ)		Connecticut Department of Transportation(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	None listed	None listed	None listed	None listed
Coordinate Changes to Timing Plans	None listed	None listed	short survey	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	Caltrans District 4, TravInfo	Caltrans District 4	None listed
Coordinate Operation	None listed	Caltrans District 4	Caltrans District 4	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clifton City(NJ)		Connecticut Department of Transportation(CT)	
	1999	2005	1999	2005
Provide Information	Muni	Caltrans District 4, TravInfo	Caltrans District 4	None listed
Share Infrastructure	Muni	Caltrans District 4	Caltrans District 4	None listed
Coordinate Operation	Muni	Caltrans District 4	Caltrans District 4	None listed
Public Transit Operators Agencies				
Provide Information	AC Transit, Muni	Bay Area Rapid Transit District, San Mateo County Transit District	Santa Clara County Transit	None listed
Share Infrastructure	None listed	Muni	Santa Clara County Transit	None listed
Coordinate Operation	None listed	AC Transit, Bay Area Rapid Transit District, Muni, San Mateo County Transit District	Santa Clara County Transit	None listed
Arterial Management Agencies				
Provide Information	None listed	Caltrans District 4, TravInfo	Caltrans District 4, Fremont City, San Jose City, Santa Clara County	None listed
Share Infrastructure	None listed	Caltrans District 4	Caltrans District 4, Fremont City, San Jose City, Santa Clara County	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clifton City(NJ)		Connecticut Department of Transportation(CT)	
	1999	2005	1999	2005
Coordinate Operation	None listed	Caltrans District 4	Caltrans District 4, Fremont City, San Jose City, Santa Clara County	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	Caltrans District 4	Caltrans District 4, Silicon Valley Partners	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	Santa Clara County Transit
<u>Incident Management agencies from which your agency receives</u>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	Caltrans District 4	Caltrans District 4, TravInfo	None listed
Receive information on Incident Severity, Location, and Type	None listed	Caltrans District 4	None listed	Caltrans District 4, TravInfo
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clifton City(NJ)		Connecticut Department of Transportation(CT)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	Caltrans District 4	None listed
Share Infrastructure	None listed	None listed	Caltrans District 4	None listed
Coordinate Operation	None listed	None listed	Caltrans District 4	None listed
Public Transit Operators				
Provide Information	None listed	None listed	Santa Clara County Transit	None listed
Share Infrastructure	None listed	None listed	Santa Clara County Transit	None listed
Coordinate Operation	None listed	None listed	Santa Clara County Transit	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives				
arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions	None listed	None listed	Jose City, Santa Clara County, Silicon Valley Partners	Fremont City
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	None listed	Caltrans District 4	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	short survey	None listed	None listed	None listed
Coordinate Changes to Timing Plans	short survey	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	Caltrans District 4, Smart Corridor Team	Caltrans District 4, Smart Corridor Team	None listed	None listed
Coordinate Operation	None listed	Caltrans District 4, Smart Corridor Team	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	Caltrans District 4	None listed	None listed
Share Infrastructure	Smart Corridor Team	Caltrans District 4, Smart Corridor Team	None listed	None listed
Coordinate Operation	Smart Corridor Team	Caltrans District 4, Smart Corridor Team	None listed	None listed
Public Transit Operators Agencies				
Provide Information	Santa Clara County Transit	None listed	None listed	None listed
Share Infrastructure	Santa Clara County Transit	Santa Clara County Transit	None listed	None listed
Coordinate Operation	None listed	Santa Clara County Transit	None listed	None listed
Arterial Management Agencies				
Provide Information	Caltrans District 4, San Jose City, Campbell City, Milpitas City, Los Gatos City	None listed	None listed	None listed
Share Infrastructure	San Jose City, Campbell City, Milpitas City	Caltrans District 4, San Jose City, Campbell City, Milpitas City, Los Gatos City	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	Caltrans District 4, San Jose City, Santa Clara County, Campbell City, Milpitas City, Los Gatos City	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	East Orange City(NJ)		Elizabeth City(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives				
arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	None listed	None listed	short survey	None listed
Receive Arterial Incident Severity Information	None listed	None listed	short survey	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	None listed	short survey	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Fairfield Town(CT)		Greenburgh Town	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	Connecticut Department of Transportation(CT)	None listed	None listed	None listed
Coordinate Changes to Timing Plans	None listed	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	Washington State Department of Transportation Northwest Region, Tacoma Fire Department	Washington State Department of Transportation Northwest Region, Tacoma Fire Department	None listed	None listed
Coordinate Operation	Washington State Department of Transportation Northwest Region	Washington State Department of Transportation Northwest Region	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Fairfield Town(CT)		Greenburgh Town	
	1999	2005	1999	2005
Provide Information	Washington State Department of Transportation Northwest Region, Washington State Patrol	Washington State Department of Transportation Northwest Region, Washington State Patrol	None listed	Arizona Department of Transportation
Share Infrastructure	Washington State Department of Transportation Northwest Region, Washington State Patrol	Washington State Department of Transportation Northwest Region, Washington State Patrol	None listed	None listed
Coordinate Operation	Washington State Department of Transportation Northwest Region, Washington State Patrol	Washington State Department of Transportation Northwest Region, Washington State Patrol	None listed	None listed
Public Transit Operators Agencies				
Provide Information	Pierce Transit, Washington State Ferries	Pierce Transit, Washington State Ferries	None listed	Regional Public Transportation Authority
Share Infrastructure	Washington State Ferries	Washington State Ferries	None listed	None listed
Coordinate Operation	Washington State Ferries	Pierce Transit, Washington State Ferries	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Fairfield Town(CT)		Greenburgh Town	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<u>Freeway Management agencies from which your agency receives</u>				
<i>freeway travel times, speeds, and conditions</i>	Washington State Department of Transportation Northwest Region, Washington State Patrol	Washington State Department of Transportation Northwest Region, Washington State Patrol	Arizona Department of Transportation	Arizona Department of Transportation
<u>Public Transit operators from which your agency receives</u>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	Regional Public Transportation Authority	Regional Public Transportation Authority
<u>Incident Management agencies from which your agency receives</u>				
<u>incident clearance and/or incident severity, location, and type information</u>				
Receive information on Incident Clearance	Washington State Department of Transportation Northwest Region, Washington State Patrol	Washington State Department of Transportation Northwest Region, Washington State Patrol	None listed	Arizona Department of Transportation
Receive information on Incident Severity, Location, and Type	Washington State Department of Transportation Northwest Region, Washington State Patrol	Washington State Department of Transportation Northwest Region, Washington State Patrol	None listed	None listed
<u>Toll Collection agencies from which your agency receives arterial travel</u>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<u>Emergency Management Agencies</u>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Fairfield Town(CT)		Greenburgh Town	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	Arizona Department of Transportation
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information	None listed	None listed	None listed	Regional Public Transportation Authority
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions	None listed	None listed	None listed	Glendale City, Mesa City, Arizona Department of Transportation
Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions	None listed	None listed	None listed	Arizona Department of Transportation

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	None listed	None listed	short survey	None listed
Coordinate Changes to Timing Plans	Greenwich Town(CT)	None listed	short survey	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	Connecticut Department of Transportation(CT)	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	Minnesota Department of Transportation	Minnesota Department of Transportation	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	Metro Transit	Metro Transit	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005
Coordinate Operation	Minnesota Department of Transportation	Minnesota Department of Transportation	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	Minnesota Department of Transportation	Minnesota Department of Transportation	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Greenwich Town(CT)		Hudson County(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
None listed	None listed	None listed	None listed	None listed
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>				
None listed	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Hunterdon County		Jersey City(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	New Jersey Department of Transportation(NJ)	New Jersey Department of Transportation(NJ)	short survey	None listed
Coordinate Changes to Timing Plans	New Jersey Department of Transportation(NJ)	New Jersey Department of Transportation(NJ)	short survey	None listed
Turn over Control of Signals	New Jersey Department of Transportation(NJ)	New Jersey Department of Transportation(NJ)	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	Caltrans District 8	Caltrans District 8	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Hunterdon County		Jersey City(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	Caltrans District 8	Caltrans District 8	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Hunterdon County		Jersey City(NJ)	
	1999	2005	1999	2005
Coordinate Operation				
	Caltrans District 8	Caltrans District 8	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	short survey	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Hunterdon County		Jersey City(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
None listed	None listed	None listed	None listed	None listed
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>				
None listed	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	short survey	None listed	None listed	None listed
Coordinate Changes to Timing Plans	short survey	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<u>Public Transit operators from which your agency receives</u>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<u>Incident Management agencies from which your agency receives</u>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<u>Toll Collection agencies from which your agency receives arterial travel</u>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<u>Emergency Management Agencies</u>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Middlesex County(NJ)		Mount Vernon City	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions				
freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Nassau County		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	None listed	None listed	None listed	None listed
Coordinate Changes to Timing Plans	None listed	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	Transportation(NJ), New Jersey Turnpike Authority(NJ), New Jersey Highway Authority(NJ), Port Authority of New York and New Jersey, Bergen County Police Department, New York State Police, TRANSCOM	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Nassau County		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	New Jersey Highway Authority(NJ), New Jersey Turnpike Authority(NJ), New Jersey Department of Transportation(NJ), Port Authority of New York and New Jersey, New York State Police Department, Bergen County Police Department, TRANSCOM	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Nassau County		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	New York City Department of Transportation	New York City Department of Transportation	short survey	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	New Jersey State Police, New Jersey Turnpike Authority(NJ), Port Authority of New York and New Jersey, TRANSCOM, New Jersey Highway Authority(NJ)	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	Bergen County Police Department (NJ), New Jersey State Police	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Nassau County		New Jersey Department of Transportation(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information				
	None listed	None listed	short survey	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed
Coordinate Operation				
	None listed	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information				
	None listed	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed
Coordinate Operation				
	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives</i>				
<i>arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	None listed	None listed	New Jersey State Police	None listed
Receive Arterial Incident Severity Information	None listed	None listed	New Jersey State Police	None listed
<i>Arterial Management agencies from which your agency receives</i>				
<i>arterial travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	short survey	None listed	None listed	None listed
Coordinate Changes to Timing Plans	short survey	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	short survey	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives</i>				
<i>arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	short survey	None listed	None listed	None listed
Receive Arterial Incident Severity Information	short survey	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives</i>				
<i>arterial travel times, speeds, and conditions</i>				
None listed	None listed	None listed	None listed	None listed
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>				
None listed	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City DOT		New York City DOT for Queens County	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	None listed	None listed	None listed	None listed
Coordinate Changes to Timing Plans	None listed	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	New York State DOT-Region 11	None listed	None listed	None listed
Share Infrastructure	New York State DOT-Region 11	TRANSCOM	None listed	None listed
Coordinate Operation	New York State DOT-Region 11	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City DOT		New York City DOT for Queens County	
	1999	2005	1999	2005
Provide Information	New York State DOT-Region 11	Port Authority of New York and New Jersey	short survey	None listed
Share Infrastructure	New York State DOT-Region 11	Transcom	None listed	None listed
Coordinate Operation	New York State DOT-Region 11	Port Authority of New York and New Jersey	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City DOT		New York City DOT for Queens County	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	New York State DOT-Region 11	Port Authority of New York and New Jersey, Transcom	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	Green Bus Lines	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	New York State DOT-Region 11	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City DOT		New York City DOT for Queens County	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	New York State DOT-Region 11	Port Authority of New York and New Jersey, Transcom	None listed	None listed
Share Infrastructure	New York State DOT-Region 11	None listed	None listed	None listed
Coordinate Operation	New York State DOT-Region 11	Port Authority of New York and New Jersey	None listed	None listed
Public Transit Operators				
Provide Information	None listed	Green Bus Lines, New York City Transit Authority	None listed	None listed
Share Infrastructure	None listed	Green Bus Lines, New York City Transit Authority	None listed	None listed
Coordinate Operation	None listed	Green Bus Lines, New York City Transit Authority	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	New York City Police	None listed	short survey	None listed
Receive Arterial Incident Severity Information	New York City Police	None listed	short survey	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	New York State DOT, Transcom	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	short survey	None listed	None listed	None listed
Coordinate Changes to Timing Plans	short survey	None listed	Brookhaven Town, Suffolk County, Nassau County	None listed
Turn over Control of Signals	short survey	None listed	None listed	None listed
<u>Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation</u>				
<u>Freeway Management Agencies</u>				
Provide Information	short survey	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	New York State Department of Transportation, TRANSCOM	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Incident Management Agencies</u>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Provide Information				
	short survey	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	New York State Department of Transportation, TRANSCOM	None listed
Coordinate Operation				
	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information				
	None listed	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed
Coordinate Operation				
	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information				
	None listed	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<u>Public Transit operators from which your agency receives</u>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<u>Incident Management agencies from which your agency receives</u>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<u>Toll Collection agencies from which your agency receives arterial travel</u>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<u>Emergency Management Agencies</u>				
Provide Information	short survey	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	short survey	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives</i>				
<i>arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	short survey	None listed	None listed	None listed
Receive Arterial Incident Severity Information	short survey	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives</i>				
<i>arterial travel times, speeds, and conditions</i>				
Freeway Management agencies from which your agency receives				
<i>freeway travel times, speeds, and conditions</i>				
	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Region 11		Newark City(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	None listed	None listed	short survey	None listed
Coordinate Changes to Timing Plans	None listed	None listed	None listed	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
<u>Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation</u>				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Region 11		Newark City(NJ)	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Region 11		Newark City(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Region 11		Newark City(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives				
arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	short survey	None listed	short survey	None listed
Coordinate Changes to Timing Plans	short survey	None listed	short survey	None listed
Turn over Control of Signals	None listed	None listed	short survey	None listed
<u>Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation</u>				
<u>Freeway Management Agencies</u>				
Provide Information	None listed	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Incident Management Agencies</u>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005
Provide Information				
	short survey	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed
Coordinate Operation				
	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information				
	None listed	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed
Coordinate Operation				
	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information				
	short survey	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	short survey	None listed	short survey	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Norwalk City(CT)		Ocean County(NJ)	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	short survey	None listed	None listed	None listed
Receive Arterial Incident Severity Information	short survey	None listed	None listed	None listed
Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions				
freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Ramapo Town(NJ)		Smithtown Town	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	None listed	None listed	Smithtown Town, Suffolk County, NYSDOT Region 10	None listed
Coordinate Changes to Timing Plans	None listed	None listed	Smithtown Town, Suffolk County, NYSDOT Region 10	None listed
Turn over Control of Signals	None listed	None listed	Smithtown Town, Suffolk County, NYSDOT Region 10	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Ramapo Town(NJ)		Smithtown Town	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Ramapo Town(NJ)		Smithtown Town	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Ramapo Town(NJ)		Smithtown Town	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives				
arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Somerset County		Stamford City(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	New Jersey Department of Transportation(NJ)	Union County(NJ)	short survey	None listed
Coordinate Changes to Timing Plans	New Jersey Department of Transportation(NJ)	Hunterdon County, Middlesex County(NJ), Union County(NJ)	short survey	None listed
Turn over Control of Signals	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
<i>Freeway Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<i>Incident Management Agencies</i>				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Somerset County		Stamford City(CT)	
	1999	2005	1999	2005
Provide Information	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
Share Infrastructure	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
Coordinate Operation	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	New Jersey Transit Corporation(NJ)	None listed	None listed	None listed
Share Infrastructure	New Jersey Transit Corporation(NJ)	None listed	None listed	None listed
Coordinate Operation	New Jersey Transit Corporation(NJ)	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	Hunterdon County, Middlesex County(NJ), New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
Share Infrastructure	Hunterdon County, Middlesex County(NJ), New Jersey Department of Transportation(NJ)	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Somerset County		Stamford City(CT)	
	1999	2005	1999	2005
Coordinate Operation	Hunterdon County, Middlesex County(NJ), New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	New Jersey Transit Corporation(NJ)	None listed	None listed	None listed
<u>Incident Management agencies from which your agency receives</u>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	Somerset County	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Somerset County		Stamford City(CT)	
	1999	2005	1999	2005
Coordinate Operation	Somerset County	None listed	None listed	None listed
<i>Freeway Management Agencies</i>				
Provide Information	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
Share Infrastructure	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
Coordinate Operation	New Jersey Department of Transportation(NJ)	None listed	None listed	None listed
<i>Public Transit Operators</i>				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Emergency Management agencies from which your agency receives arterial incident clearance and/or arterial incident severity</i>				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Union City - New Jersey		Warren County	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>				
Share Timing Plans Information	short survey	None listed	None listed	None listed
Coordinate Changes to Timing Plans	short survey	None listed	None listed	None listed
Turn over Control of Signals	short survey	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation				
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Incident Management Agencies				

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Union City - New Jersey		Warren County	
	1999	2005	1999	2005
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators Agencies				
Provide Information	short survey	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Arterial Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Union City - New Jersey		Warren County	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives</i>				
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed	None listed	None listed
<i>Public Transit operators from which your agency receives</i>				
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>				
<i>incident clearance and/or incident severity, location, and type information</i>				
Receive information on Incident Clearance	short survey	None listed	None listed	None listed
Receive information on Incident Severity, Location, and Type	short survey	None listed	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>				
<i>times derived from vehicles probes</i>	None listed	None listed	None listed	None listed
Arterial Incident Management Section				
Agencies your agency provides incident severity, location, and type info.				
<u>and/or shares infrastructure and/or coordinates operation</u>				
<i>Emergency Management Agencies</i>				
Provide Information	short survey	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Union City - New Jersey		Warren County	
	1999	2005	1999	2005
Coordinate Operation	None listed	None listed	None listed	None listed
Freeway Management Agencies				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Public Transit Operators				
Provide Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Receiving real-time information via electronic means from others				
Emergency Management agencies from which your agency receives				
arterial incident clearance and/or arterial incident severity				
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
Agency Returned Survey?	Yes	
Arterial Management Section		
<u>Arterial Mgt. agencies in metropolitan area with which you share info.</u>		
Share Timing Plans Information	None listed	White Plains
Coordinate Changes to Timing Plans	None listed	New York State Department of Transportation Region 8, White Plains
Turn over Control of Signals	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation		
<i>Freeway Management Agencies</i>		
Provide Information	None listed	New York State Department of Transportation Region 8
Share Infrastructure	None listed	New York State Department of Transportation Region 8
Coordinate Operation	None listed	New York State Department of Transportation Region 8
<i>Incident Management Agencies</i>		

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
Provide Information	None listed	New York State Department of Transportation Region 8
Share Infrastructure	None listed	New York State Department of Transportation Region 8
Coordinate Operation	None listed	New York State Department of Transportation Region 8
Public Transit Operators Agencies		
Provide Information	None listed	Westchester County Department of Transportation
Share Infrastructure	None listed	Westchester County Department of Transportation
Coordinate Operation	None listed	None listed
Arterial Management Agencies		
Provide Information	None listed	New York State Department of Transportation Region 8, White Plains City
Share Infrastructure	None listed	New York State Department of Transportation Region 8, White Plains City

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
Coordinate Operation	None listed	New York State Department of Transportation Region 8, White Plains City
<u>Receiving real-time information via electronic means from others</u>		
<i>Freeway Management agencies from which your agency receives</i>		
<i>freeway travel times, speeds, and conditions</i>	None listed	New York State Department of Transportation Region 8, TRANSCOM
<i>Public Transit operators from which your agency receives</i>		
<i>arterial travel times derived from vehicle probes</i>	None listed	None listed
<i>Incident Management agencies from which your agency receives</i>		
<i>incident clearance and/or incident severity, location, and type information</i>		
Receive information on Incident Clearance	None listed	None listed
Receive information on Incident Severity, Location, and Type	None listed	None listed
<i>Toll Collection agencies from which your agency receives arterial travel</i>		
<i>times derived from vehicles probes</i>	None listed	MTA Bridges & Tunnels, New York State Thruway Authority
Arterial Incident Management Section		
Agencies your agency provides incident severity, location, and type info.		
<u>and/or shares infrastructure and/or coordinates operation</u>		
<i>Emergency Management Agencies</i>		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed

Arterial Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
Coordinate Operation	None listed	None listed
<i>Freeway Management Agencies</i>		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
<i>Public Transit Operators</i>		
Provide Information	None listed	None listed
Share Infrastructure	None listed	None listed
Coordinate Operation	None listed	None listed
<u>Receiving real-time information via electronic means from others</u>		
<i>Emergency Management agencies from which your agency receives</i>		
<i>arterial incident clearance and/or arterial incident severity</i>		
Receive Arterial Incident Clearance Information	None listed	None listed
Receive Arterial Incident Severity Information	None listed	None listed
<i>Arterial Management agencies from which your agency receives</i>		
<i>arterial travel times, speeds, and conditions</i>	None listed	None listed
<i>Freeway Management agencies from which your agency receives</i>		
<i>freeway travel times, speeds, and conditions</i>	None listed	None listed

*short survey: Agency responded using a short survey. The survey did not include names of individual agencies, but only identified whether integration exists.

Appendix H
Arterial Management Information Collection and Dissemination

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Arterial Management Section								
Data collected, archived, and/or transferred to another agency								
Collected by your agency	NR	NR	NR	NR	NR	NR	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths
Archived by your agency	NR	NR	NR	NR	NR	NR	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths
Transferred to another agency by your agency	NR	NR	NR	NR	NR	NR	NR	NR
Importance of making information available to the public								

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Ranked High								
	NR		NR		NR		NR	
Ranked Medium								
	NR		NR		NR		NR	
Ranked Low								
	NR		NR		NR		Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths	
Groups that make requests for the data								
	NR		NR		NR		Consultants, Developers	
What is the data used for?								
	NR		NR		NR		Traffic analysis, Construction impact determination	
Methods used to disseminate arterial information to the public								

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Babylon Town		Bayonne City(NJ)		Bergen County(NJ)		Bridgeport City(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Technologies your agency uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR		NR		NR	
Telephone system for reporting arterial information to the public	NR		NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR		NR	
Arterial Incident Management Section								
Methods used to distribute incident location and severity information to the public								
Technologies your agency uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR		NR		NR	
Telephone system for reporting incident information to the public	NR		NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)	
	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes	
Arterial Management Section						
Data collected, archived, and/or transferred to another agency						
Collected by your agency						
	NR	NR	NR	NR	NR	NR
Archived by your agency						
	NR	NR	NR	NR	NR	NR
Transferred to another agency by your agency						
	NR	NR	NR	NR	NR	NR
Importance of making information available to the public						

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)	
	1999	2005	1999	2005	1999	2005
Ranked High						
	NR		NR		NR	
Ranked Medium						
	NR		NR		NR	
Ranked Low						
	NR		NR		NR	
Groups that make requests for the data						
	NR		NR		NR	
What is the data used for?						
	NR		NR		NR	
Methods used to disseminate arterial information to the public						

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clifton City(NJ)		Connecticut Department of Transportation(CT)		East Orange City(NJ)	
	1999	2005	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR		NR	
Telephone system for reporting arterial information to the public	NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR	
Arterial Incident Management Section						
Methods used to distribute incident location and severity information to the public						
Technologies your agency uses to disseminate:	NR	NR	Internet Web sites, Pagers or personal data assistants, Kiosks	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR		NR	
Telephone system for reporting incident information to the public	NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Elizabeth City(NJ)		Fairfield Town(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	NR	NR	NR
Archived by your agency	NR	NR	NR	NR
Transferred to another agency by your agency	NR	NR	NR	NR
Importance of making information available to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Elizabeth City(NJ)		Fairfield Town(CT)	
	1999	2005	1999	2005
Ranked High	NR		NR	
Ranked Medium	NR		NR	
Ranked Low	NR		NR	
Groups that make requests for the data	NR		Consultants, Public complaints/Research/Questions	
What is the data used for?	NR		Traffic analysis, Dissemination to the public, Answering Public Concerns	
Methods used to disseminate arterial information to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Elizabeth City(NJ)		Fairfield Town(CT)	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR	
Telephone system for reporting arterial information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Arterial Incident Management Section				
Methods used to distribute incident location and severity information to the public				
Technologies your agency uses to disseminate:	Dedicated cable TV	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Greenburgh Town		Greenwich Town(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Traffic volumes, Traffic speeds	NR	NR	NR
Archived by your agency	NR	NR	NR	NR
Transferred to another agency by your agency	NR	NR	NR	NR
Importance of making information available to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Greenburgh Town		Greenwich Town(CT)	
	1999	2005	1999	2005
Ranked High	Traffic volumes, Traffic speeds		Traffic volumes, Phasing/cycle lengths, Scheduled work zones	
Ranked Medium	NR		Emergency vehicle signal preemption, Incidents, Emergency/evacuation routes and procedures	
Ranked Low	NR		NR	
Groups that make requests for the data	State DOT personnel, Consultants, Public		State DOT personnel, MPOs, Consultants	
What is the data used for?	Traffic analysis, Dissemination to the public		Traffic analysis, Construction impact determination, Planning, Roadway impact analysis, Accident prediction models, Dissemination to the public	
Methods used to disseminate arterial information to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Greenburgh Town		Greenwich Town(CT)	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR	
Telephone system for reporting arterial information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Arterial Incident Management Section				
Methods used to distribute incident location and severity information to the public				
Technologies your agency uses to disseminate:	Telephone system, E-mail or other direct PC communication	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Hudson County(NJ)		Hunterdon County	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	NR	Traffic volumes, Traffic speeds, Lane occupancy, Route designations (snow emergency, etc.), Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Lane occupancy, Route designations (snow emergency, etc.), Current work zones, Scheduled work zones
Archived by your agency	NR	NR	Traffic volumes, Traffic speeds, Lane occupancy, Route designations (snow emergency, etc.), Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Lane occupancy, Route designations (snow emergency, etc.), Current work zones, Scheduled work zones
Transferred to another agency by your agency	NR	NR	Traffic volumes, Traffic speeds, Lane occupancy, Route designations (snow emergency, etc.), Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Lane occupancy, Route designations (snow emergency, etc.), Current work zones, Scheduled work zones
Importance of making information available to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Hudson County(NJ)		Hunterdon County	
	1999	2005	1999	2005
Ranked High	NR		Traffic volumes, Traffic speeds, Lane occupancy, Route designations (snow emergency, etc.), Current work zones, Scheduled work zones	
Ranked Medium	NR		NR	
Ranked Low	NR		NR	
Groups that make requests for the data	NR		State DOT personnel, MPOs, Consultants, Public	
What is the data used for?	NR		Traffic analysis, Construction impact determination, Planning, Roadway impact analysis, Dissemination to the public, Real Estate Purchase	
Methods used to disseminate arterial information to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Hudson County(NJ)		Hunterdon County	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	Facsimile	Facsimile
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	Facsimile	Facsimile
Internet web site reporting arterial conditions	NR		NR	
Telephone system for reporting arterial information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Arterial Incident Management Section				
Methods used to distribute incident location and severity information to the public				
Technologies your agency uses to disseminate:	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City		Nassau County	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Arterial Management Section								
Data collected, archived, and/or transferred to another agency								
Collected by your agency								
	NR	NR	NR	NR	NR	NR	NR	NR
Archived by your agency								
	NR	NR	NR	NR	NR	NR	NR	NR
Transferred to another agency by your agency								
	NR	NR	NR	NR	NR	NR	NR	NR
Importance of making information available to the public								

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City		Nassau County	
	1999	2005	1999	2005	1999	2005	1999	2005
Ranked High								
	NR		NR		NR			Incidents
Ranked Medium								
	NR		NR		NR			Traffic volumes, Traffic speeds, Phasing/cycle lengths, Road conditions, Weather conditions, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures
Ranked Low								
	NR		NR		NR			Lane occupancy, Vehicle classification, Turning movements, Queues, Emergency vehicle signal preemption, Transit vehicle signal priority, Route designations (snow emergency, etc.), Intermodal (air, rail, water) connections, Highway operations coordination information
Groups that make requests for the data								
	NR		NR		NR			Consultants
What is the data used for?								
	NR		NR		NR			Traffic analysis, Planning
Methods used to disseminate arterial information to the public								

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Jersey City(NJ)		Middlesex County(NJ)		Mount Vernon City		Nassau County	
	1999	2005	1999	2005	1999	2005	1999	2005
Technologies your agency uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR		NR		NR	
Telephone system for reporting arterial information to the public	NR		NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR		NR	
Arterial Incident Management Section								
Methods used to distribute incident location and severity information to the public								
Technologies your agency uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:								
	NR	NR	NR	NR	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR		NR		NR	
Telephone system for reporting incident information to the public	NR		NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes	
Arterial Management Section						
Data collected, archived, and/or transferred to another agency						
Collected by your agency						
	NR	NR	NR	NR	NR	NR
Archived by your agency						
	NR	NR	NR	NR	NR	NR
Transferred to another agency by your agency						
	NR	NR	NR	NR	NR	NR
Importance of making information available to the public						

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005
Ranked High	NR		NR		NR	
Ranked Medium	NR		NR		NR	
Ranked Low	NR		NR		NR	
Groups that make requests for the data	NR		NR		NR	
What is the data used for?	NR		NR		NR	
Methods used to disseminate arterial information to the public						

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New Jersey Department of Transportation(NJ)		New Jersey Highway Authority(NJ)		New Rochelle City	
	1999	2005	1999	2005	1999	2005
Technologies your agency uses to disseminate:	E-mail or other direct PC communication	Dedicated cable TV, Telephone system, Internet Web sites, Kiosks, E-mail or other direct PC communication	Telephone system	Telephone system	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR		NR	
Telephone system for reporting arterial information to the public	NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR	
Arterial Incident Management Section						
Methods used to distribute incident location and severity information to the public						
Technologies your agency uses to disseminate:	NR	Dedicated cable TV, Telephone system, Internet Web sites, Kiosks, E-mail or other direct PC communication	Telephone system	Telephone system	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR		NR	
Telephone system for reporting incident information to the public	NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City DOT		New York City DOT for Queens County	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Traffic volumes, Traffic speeds, Turning movements, Phasing/cycle lengths, Emergency vehicle signal preemption, Current work zones, Scheduled work zones	NR	NR	NR
Archived by your agency	Phasing/cycle lengths, Emergency vehicle signal preemption	NR	NR	NR
Transferred to another agency by your agency	Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Turning movements, Current work zones	NR	NR
Importance of making information available to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City DOT		New York City DOT for Queens County	
	1999	2005	1999	2005
Ranked High	Current work zones, Scheduled work zones		NR	
Ranked Medium	Traffic volumes, Traffic speeds, Turning movements, Phasing/cycle lengths, Emergency vehicle signal preemption		NR	
Ranked Low	NR		NR	
Groups that make requests for the data	Universities, State DOT personnel, Consultants		NR	
What is the data used for?	Traffic analysis, Construction impact determination, Planning		NR	
Methods used to disseminate arterial information to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City DOT		New York City DOT for Queens County	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	Telephone system	Internet Web sites	Telephone system, Internet Web sites, Pagers or personal data assistants, E-mail or other direct PC communication	Dedicated cable TV, Kiosks, In-vehicle navigation systems
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR	
Telephone system for reporting arterial information to the public	1-877-DOT-MOVE		NR	
Organizations your agency sends information for dissemination to the public	Transcom;NYSDOT		NR	
Arterial Incident Management Section				
Methods used to distribute incident location and severity information to the public				
Technologies your agency uses to disseminate:	Dedicated cable TV, Telephone system, E-mail or other direct PC communication	Internet Web sites	Pagers or personal data assistants	Dedicated cable TV, Telephone system, Kiosks, E-mail or other direct PC communication, In-vehicle navigation systems
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	1-877-DOT-MOVE		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	NR	Traffic volumes, Traffic speeds, Phasing/cycle lengths, Weather conditions, Incidents, Current work zones, Scheduled work zones	NR
Archived by your agency	NR	NR	Traffic volumes, Traffic speeds, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones	NR
Transferred to another agency by your agency	NR	NR	Incidents, Current work zones, Scheduled work zones	NR
Importance of making information available to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Ranked High	NR		Traffic speeds, Incidents, Current work zones, Scheduled work zones	
Ranked Medium	NR		NR	
Ranked Low	NR		Traffic volumes, Phasing/cycle lengths, Weather conditions	
Groups that make requests for the data	NR		Universities, Media (i.e., TV stations, radio stations), Consultants	
What is the data used for?	NR		Traffic analysis, Planning, Dissemination to the public	
Methods used to disseminate arterial information to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Hudson Valley Region 8		New York State DOT-Long Island Region 10	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	Dedicated cable TV, Telephone system, Internet Web sites, Pagers or personal data assistants, Interactive TV, Kiosks, E-mail or other direct PC communication	Facsimile	Internet Web sites
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	Dedicated cable TV, Internet Web sites	NR
Internet web site reporting arterial conditions	NR		www.metrocommute.com	
Telephone system for reporting arterial information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		Shadow Traffic	
Arterial Incident Management Section				
Methods used to distribute incident location and severity information to the public				
Technologies your agency uses to disseminate:	Telephone system, Internet Web sites, E- mail or other direct PC communication	Dedicated cable TV, Telephone system, Pagers or personal data assistants, Interactive TV, Kiosks, E-mail or other direct PC communication	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Region 11		Newark City(NJ)		Norwalk City(CT)	
	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes	
Arterial Management Section						
Data collected, archived, and/or transferred to another agency						
Collected by your agency						
	NR	NR	NR	NR	NR	NR
Archived by your agency						
	NR	NR	NR	NR	NR	NR
Transferred to another agency by your agency						
	NR	NR	NR	NR	NR	NR
Importance of making information available to the public						

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Region 11		Newark City(NJ)		Norwalk City(CT)	
	1999	2005	1999	2005	1999	2005
Ranked High	NR		NR		NR	
Ranked Medium	NR		NR		NR	
Ranked Low	NR		NR		NR	
Groups that make requests for the data	NR		NR		NR	
What is the data used for?	NR		NR		NR	
Methods used to disseminate arterial information to the public						

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York State DOT-Region 11		Newark City(NJ)		Norwalk City(CT)	
	1999	2005	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	NR	NR	NR	Dedicated cable TV, Telephone system, Internet Web sites, Kiosks
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR		NR	
Telephone system for reporting arterial information to the public	NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR	
Arterial Incident Management Section						
Methods used to distribute incident location and severity information to the public						
Technologies your agency uses to disseminate:	NR	NR	NR	NR	NR	Dedicated cable TV, Telephone system, Internet Web sites, Kiosks
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR		NR	
Telephone system for reporting incident information to the public	NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Ocean County(NJ)		Ramapo Town(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	NR	NR	NR
Archived by your agency	NR	NR	NR	NR
Transferred to another agency by your agency	NR	NR	NR	NR
Importance of making information available to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Ocean County(NJ)		Ramapo Town(NJ)	
	1999	2005	1999	2005
Ranked High	NR		NR	
Ranked Medium	NR		NR	
Ranked Low	NR		NR	
Groups that make requests for the data	NR		NR	
What is the data used for?	NR		NR	
Methods used to disseminate arterial information to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Ocean County(NJ)		Ramapo Town(NJ)	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR	
Telephone system for reporting arterial information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Arterial Incident Management Section				
Methods used to distribute incident location and severity information to the public				
Technologies your agency uses to disseminate:	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Smithtown Town		Somerset County	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths, Emergency vehicle signal preemption	NR	Traffic volumes, Traffic speeds, Turning movements, Phasing/cycle lengths, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures	NR
Archived by your agency	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths, Emergency vehicle signal preemption	NR	Traffic volumes, Traffic speeds, Turning movements, Phasing/cycle lengths, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures	NR
Transferred to another agency by your agency	NR	NR	Traffic volumes, Traffic speeds, Turning movements, Phasing/cycle lengths, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures	NR
Importance of making information available to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Smithtown Town		Somerset County	
	1999	2005	1999	2005
Ranked High	NR		Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures	
Ranked Medium	NR		Traffic volumes, Traffic speeds, Turning movements, Phasing/cycle lengths, Queues	
Ranked Low	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths, Emergency vehicle signal preemption		NR	
Groups that make requests for the data	County of Suffolk Traffic Division		State DOT personnel, Consultants	
What is the data used for?	Traffic analysis		Traffic analysis, Planning	
Methods used to disseminate arterial information to the public				

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Smithtown Town		Somerset County	
	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	NR	Internet Web sites, Pagers or personal data assistants, E-mail or other direct PC communication, Facsimile	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		www.co.somerset.nj.us	
Telephone system for reporting arterial information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Arterial Incident Management Section				
Methods used to distribute incident location and severity information to the public				
Technologies your agency uses to disseminate:	NR	NR	Telephone system, Internet Web sites, Pagers or personal data assistants, Cell phone/voice, Facsimile	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR	
Telephone system for reporting incident information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Stamford City(CT)		Union City - New Jersey		Warren County		Westchester County	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Arterial Management Section								
Data collected, archived, and/or transferred to another agency								
Collected by your agency	NR	NR	NR	NR	NR	NR	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths, Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths, Current work zones, Scheduled work zones
Archived by your agency	NR	NR	NR	NR	NR	NR	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths, Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths, Current work zones, Scheduled work zones
Transferred to another agency by your agency	NR	NR	NR	NR	NR	NR	Traffic volumes, Traffic speeds, Vehicle classification, Current work zones, Scheduled work zones	Traffic volumes, Traffic speeds, Vehicle classification, Current work zones, Scheduled work zones
Importance of making information available to the public								

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Stamford City(CT)		Union City - New Jersey		Warren County		Westchester County	
	1999	2005	1999	2005	1999	2005	1999	2005
Ranked High	NR		NR		NR		Traffic volumes, Current work zones, Scheduled work zones	
Ranked Medium	NR		NR		NR		NR	
Ranked Low	NR		NR		NR		Traffic speeds, Vehicle classification, Turning movements, Phasing/cycle lengths	
Groups that make requests for the data	NR		NR		NR		State DOT personnel, Media (I.e., TV stations, radio stations), MPOs, Consultants	
What is the data used for?	NR		NR		NR		Traffic analysis, Construction impact determination, Planning, Dissemination to the public	
Methods used to disseminate arterial information to the public								

Data Collection and Dissemination: Arterial Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Stamford City(CT)		Union City - New Jersey		Warren County		Westchester County	
	1999	2005	1999	2005	1999	2005	1999	2005
Technologies your agency uses to disseminate:	NR	Internet Web sites	NR	NR	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR	NR	NR
Internet web site reporting arterial conditions	NR		NR		NR		www.co.westcheester.ny.us/dpw	
Telephone system for reporting arterial information to the public	NR		NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR		NYMTC	
Arterial Incident Management Section								
Methods used to distribute incident location and severity information to the public								
Technologies your agency uses to disseminate:	NR	Internet Web sites	NR	NR	NR	NR	NR	NR
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	NR	NR	NR	NR
Internet web site reporting incident information	NR		NR		NR		NR	
Telephone system for reporting incident information to the public	NR		NR		NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR		NR		NR	

Appendix I
Transit Management Components

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clarkstown Mini-Trans		Command Bus Company		Connecticut Transit- Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of vehicles used in revenue service								
Fixed Route Bus	10	NR	132	NR	42	NR	235	275
Heavy or Rapid Rail	NR	NR	0	NR	NR	NR	NR	NR
Light Rail	NR	NR	0	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	0	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Have of plan to have an Automated Vehicle Location System?	No		No		No		Yes	
Primary and Secondary Location Technologies Used								
<i>Primary Technologies</i>								
GPS	No	No	No	No	No	No	No	Yes
Sign/Odometer	No	No	No	No	No	No	No	No
Dead-Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
<i>Backup Technologies</i>								
GPS	No	No	No	No	No	No	No	No
Sign/Odometer	No	No	No	No	No	No	No	No
Dead-Reckoning	No	No	No	No	No	No	No	Yes
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles Equipped with AVL								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	0	100
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Motor Buses Operated as Vehicle Probes								
Number of Motor Buses equipped as probes on freeways?	NR		NR		NR		NR	
Number of Motor Buses equipped as probes on arterials?	NR		NR		NR		NR	
Have Organized Regional Incident Management Program?	Yes		No		No		No	

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clarkstown Mini-Trans		Command Bus Company		Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005	1999	2005	1999	2005
Have Automated Traveler Information System?	Yes		Yes		No		Yes	
<u>Services Automated Traveler Info. System Applies:</u>								
Fixed Route	Yes		Yes		No		Yes	
Heavy Rail	No		No		No		No	
Light Rail	No		No		No		No	
Demand Responsive	No		No		No		No	
Commuter Rail	No		No		No		No	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public								
Number of bus stops on fixed transit routes	30	NR	NR	NR	NR	NR	NR	NR
Bus stops on fixed transit routes that display traveler info to the public	30	NR	NR	NR	NR	NR	NR	NR
Number of rail stations	1	NR	NR	NR	NR	NR	NR	NR
Number of rail stations that display traveler information	1	NR	NR	NR	NR	NR	NR	NR
Number of other locations that display traveler information to public	NR	NR	NR	NR	NR	NR	NR	NR
Number of vehicles the traveler information system has available								
Fixed Route Bus	10	NR	NR	NR	NR	NR	235	275
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Deployment of Communications Technology								
<u>Attributes of Radio System:</u>								
Digital?	No		Yes		No		Yes	
Analog?	Yes		No		Yes		No	
Trunked?	Yes		Yes		Yes		Yes	
Regular?	No		No		No		No	
Services that use a Digital or Trunked Radio System								
<u>Digital Only</u>								
Fixed Route Bus	No	No	No	No	No	No	Yes	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
<u>Trunked Only</u>								
Fixed Route Bus	No	No	Yes	No	No	No	Yes	No

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clarkstown Mini-Trans		Command Bus Company		Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005	1999	2005	1999	2005
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Have of plan to have Automatic Passenger Counters (APCs)?	No		Yes		No		Yes	
Methods used to count passengers								
Treadle Mats	No		No		No		No	
Infrared Beams	No		No		No		Yes	
Primary and Secondary Location Technologies Used								
<u>Primary Technologies</u>								
GPS	No	No	No	No	No	No	No	Yes
Differential GPS	No	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
<u>Backup Technologies</u>								
GPS	No	No	No	No	No	No	No	No
Differential GPS	No	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	Yes
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles with APCs								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	0	100
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Remote Real-Time Monitoring and Computer Assisted Dispatching								
<u>Remote Real-Time Monitoring</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	0	100
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clarkstown Mini-Trans		Command Bus Company		Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
<u>Automated Dispatching or Control Software</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	0	100
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Coordinate or plan to coordinate travel request and vehicle dispatching for multiple agencies?	No		No		No		No	
Is there or will there be a Transportation Management Center (TMC) in the region that controls transit and highway modes?	No		NR		NR		NR	
Modes that TMC currently controls:								
Highways	No	No	No	No	No	No	No	No
Fixed Route Bus	No	No	No	No	No	No	No	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Priority at Traffic Signals and Ramp Meter Priority								
<u>Priority at Traffic Signals</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
<u>Ramp Meter Priority</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Number of Vehicles Equipped with Navigation Aids								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clarkstown Mini-Trans		Command Bus Company		Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
ITS Standards Used Related to Transit Management								
TCIP On Board Objects (TCIP-OB)	No		No		No		No	
TCIP Traffic Management Objects (TCIP-TM)	No		No		No		No	
TCIP Common Public Transportation Objects (TCIP-CPT)	No		No		No		No	
TCIP Passenger Information Objects (TCIP-PI)	No		No		No		No	
TCIP Incident Management Objects (TCIP-IM)	No		No		No		No	
TCIP Fare Collection Objects (TCIP-FC)	No		No		No		No	
TCIP Spatial Representation Objects (TCIP-SP)	No		No		No		No	
TCIP Control Center Objects (TCIP-CC)	No		No		No		No	
TCIP Scheduling/Runcutting Objects (TCIP-SCH)	No		No		No		No	
Send data communication between micro computer and heavy duty vehicle applications (SAE J1708)	No		No		No		No	
Would agency be willing to participate in testing of ITS Standards?	No		No		No		Yes	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	No		No		No		No	
Electronic Fare Payment								
Have full operational Electronic Fare Payment System?	No		Yes		Yes		Yes	
Methods of Fare Payment								
<u>Stored value card with fare deducted for each trip</u>								
Magnetic Stripe	No		No		Yes		Yes	
Smart Card	No		No		No		No	
Debit Card	No		No		No		No	
<u>Billed by the month for trips taken</u>								
Magnetic Stripe	No		No		Yes		No	
Smart Card	No		No		No		No	
Credit Card	No		No		No		No	
<u>Monthly Pass</u>								
Magnetic Stripe	No		No		Yes		No	
Smart Card	No		No		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
<u>Magnetic Stripe Readers</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	42	42	235	275
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Clarkstown Mini-Trans		Command Bus Company		Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005	1999	2005	1999	2005
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Smart Card Readers</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Credit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Debit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
NR: No Response								

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Huntington Area Rapid Transit (HART)		Jamaica Buses		Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of vehicles used in revenue service								
Fixed Route Bus	13	13	103	103	12	12	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	0	0	NR	NR
Light Rail	NR	NR	NR	NR	0	0	NR	NR
Demand Responsive	6	10	NR	NR	2	2	887	900
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Have of plan to have an Automated Vehicle Location System?	No		No		No		No	
Primary and Secondary Location Technologies Used								
<i>Primary Technologies</i>								
GPS	No	No	No	No	No	No	No	No
Sign/Odometer	No	No	No	No	No	No	No	No
Dead-Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
<i>Backup Technologies</i>								
GPS	No	No	No	No	No	No	No	No
Sign/Odometer	No	No	No	No	No	No	No	No
Dead-Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles Equipped with AVL								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Motor Buses Operated as Vehicle Probes								
Number of Motor Buses equipped as probes on freeways?	NR		NR		NR		NR	
Number of Motor Buses equipped as probes on arterials?	NR		NR		NR		NR	
Have Organized Regional Incident Management Program?	No		No		No		No	

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Huntington Area Rapid Transit (HART)		Jamaica Buses		Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005	1999	2005	1999	2005
Have Automated Traveler Information System?	No		Yes		No		Yes	
<u>Services Automated Traveler Info. System Applies:</u>								
Fixed Route	No		Yes		No		No	
Heavy Rail	No		No		No		No	
Light Rail	No		No		No		No	
Demand Responsive	No		No		No		No	
Commuter Rail	No		No		No		Yes	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public								
Number of bus stops on fixed transit routes	NR	NR	300	300	NR	NR	NR	NR
Bus stops on fixed transit routes that display traveler info to the public	NR	NR	100	100	NR	NR	NR	NR
Number of rail stations	NR	NR	0	0	NR	NR	115	117
Number of rail stations that display traveler information	NR	NR	0	0	NR	NR	15	25
Number of other locations that display traveler information to public	NR	NR	0	0	NR	NR	5	NR
Number of vehicles the traveler information system has available								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Deployment of Communications Technology								
<u>Attributes of Radio System:</u>								
Digital?	No		Yes		No		No	
Analog?	Yes		No		Yes		Yes	
Trunked?	No		Yes		No		No	
Regular?	Yes		No		Yes		Yes	
Services that use a Digital or Trunked Radio System								
<u>Digital Only</u>								
Fixed Route Bus	No	No	Yes	No	No	No	No	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
<u>Trunked Only</u>								
Fixed Route Bus	No	No	Yes	No	No	No	No	No

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Huntington Area Rapid Transit (HART)		Jamaica Buses		Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005	1999	2005	1999	2005
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Have of plan to have Automatic Passenger Counters (APCs)?	No		No		No		No	
Methods used to count passengers								
Treadle Mats	No		No		No		No	
Infrared Beams	No		No		No		No	
Primary and Secondary Location Technologies Used								
<u>Primary Technologies</u>								
GPS	No	No	No	No	No	No	No	No
Differential GPS	No	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
<u>Backup Technologies</u>								
GPS	No	No	No	No	No	No	No	No
Differential GPS	No	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles with APCs								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Remote Real-Time Monitoring and Computer Assisted Dispatching								
<u>Remote Real-Time Monitoring</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Huntington Area Rapid Transit (HART)		Jamaica Buses		Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	NR	NR	NR	NR	377	377
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
<u>Automated Dispatching or Control Software</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	10	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Coordinate or plan to coordinate travel request and vehicle dispatching for multiple agencies?	No		No		No		Yes	
Is there or will there be a Transportation Management Center (TMC) in the region that controls transit and highway modes?	NR		Yes		NR		NR	
Modes that TMC currently controls:								
Highways	No	No	No	No	No	No	No	No
Fixed Route Bus	No	No	No	No	No	No	No	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Priority at Traffic Signals and Ramp Meter Priority								
<u>Priority at Traffic Signals</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
<u>Ramp Meter Priority</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Number of Vehicles Equipped with Navigation Aids								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Huntington Area Rapid Transit (HART)		Jamaica Buses		Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
ITS Standards Used Related to Transit Management								
TCIP On Board Objects (TCIP-OB)	No		No		No		No	
TCIP Traffic Management Objects (TCIP-TM)	No		No		No		No	
TCIP Common Public Transportation Objects (TCIP-CPT)	No		No		No		No	
TCIP Passenger Information Objects (TCIP-PI)	No		No		No		No	
TCIP Incident Management Objects (TCIP-IM)	No		No		No		No	
TCIP Fare Collection Objects (TCIP-FC)	No		No		No		No	
TCIP Spatial Representation Objects (TCIP-SP)	No		No		No		No	
TCIP Control Center Objects (TCIP-CC)	No		No		No		No	
TCIP Scheduling/Runcutting Objects (TCIP-SCH)	No		No		No		No	
Send data communication between micro computer and heavy duty vehicle applications (SAE J1708)	No		No		No		No	
Would agency be willing to participate in testing of ITS Standards?	Yes		NR		No		No	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	No		No		No		No	
Electronic Fare Payment								
Have full operational Electronic Fare Payment System?	Yes		Yes		No		No	
Methods of Fare Payment								
<u>Stored value card with fare deducted for each trip</u>								
Magnetic Stripe	No		Yes		No		No	
Smart Card	No		No		No		No	
Debit Card	No		No		No		No	
<u>Billed by the month for trips taken</u>								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Credit Card	No		No		No		No	
<u>Monthly Pass</u>								
Magnetic Stripe	No		Yes		No		No	
Smart Card	No		No		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
<u>Magnetic Stripe Readers</u>								
Fixed Route Bus Vehicles	NR	NR	103	103	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Huntington Area Rapid Transit (HART)		Jamaica Buses		Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005	1999	2005	1999	2005
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Smart Card Readers</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Credit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Debit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
NR: No Response								

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Long Island Bus		New Jersey Transit Corporation(NJ)		New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of vehicles used in revenue service								
Fixed Route Bus	326	336	2,100	2,100	3,557	NR	33	33
Heavy or Rapid Rail	NR	NR	0	0	5,774	NR	0	0
Light Rail	NR	NR	22	40	0	NR	0	0
Demand Responsive	59	72	85	100	175	NR	27	27
Commuter Rail	NR	NR	745	820	NR	NR	0	0
Ferry Boat	NR	NR	0	0	NR	NR	0	0
Have of plan to have an Automated Vehicle Location System?	Yes		Yes		Yes		Yes	
Primary and Secondary Location Technologies Used								
<i>Primary Technologies</i>								
GPS	No	No	No	Yes	No	No	No	Yes
Sign/Odometer	No	No	Yes	No	No	No	No	No
Dead-Reckoning	No	No	No	No	Yes	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	Yes	No	No	No	Yes	No	No	No
<i>Backup Technologies</i>								
GPS	No	No	No	No	No	No	No	No
Sign/Odometer	No	No	No	No	No	No	No	No
Dead-Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles Equipped with AVL								
Fixed Route Bus	NR	336	2,100	2,100	170	3,557	NR	NR
Heavy or Rapid Rail	NR	NR	0	0	NR	NR	NR	NR
Light Rail	NR	NR	0	0	NR	NR	NR	NR
Demand Responsive	59	72	0	0	NR	NR	NR	27
Commuter Rail	NR	NR	0	0	NR	NR	NR	NR
Ferry Boat	NR	NR	0	0	NR	NR	NR	NR
Motor Buses Operated as Vehicle Probes								
Number of Motor Buses equipped as probes on freeways?	NR		NR		0		NR	
Number of Motor Buses equipped as probes on arterials?	NR		NR		0		NR	
Have Organized Regional Incident Management Program?	No		No		No		No	

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Long Island Bus		New Jersey Transit Corporation(NJ)		New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Have Automated Traveler Information System?	Yes		Yes		Yes		No	
<u>Services Automated Traveler Info. System Applies:</u>								
Fixed Route	Yes		Yes		Yes		No	
Heavy Rail	No		No		No		No	
Light Rail	No		Yes		No		No	
Demand Responsive	No		Yes		No		No	
Commuter Rail	No		Yes		No		No	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public								
Number of bus stops on fixed transit routes	NR	NR	18,000	18,000	14,000	NR	NR	NR
Bus stops on fixed transit routes that display traveler info to the public	NR	NR	0	4	30	1,400	NR	NR
Number of rail stations	NR	NR	0	0	468	468	NR	NR
Number of rail stations that display traveler information	NR	NR	0	6	NR	NR	NR	NR
Number of other locations that display traveler information to public	NR	3	0	0	NR	NR	NR	NR
Number of vehicles the traveler information system has available								
Fixed Route Bus	168	313	NR	NR	0	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	0	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Deployment of Communications Technology								
<u>Attributes of Radio System:</u>								
Digital?	Yes		No		No		Yes	
Analog?	No		Yes		Yes		No	
Trunked?	Yes		Yes		Yes		Yes	
Regular?	No		No		No		No	
Services that use a Digital or Trunked Radio System								
<u>Digital Only</u>								
Fixed Route Bus	Yes	No	No	Yes	No	No	No	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	Yes	No	No	No	No
Demand Responsive	Yes	No	No	No	No	No	No	No
Commuter Rail	No	No	No	Yes	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
<u>Trunked Only</u>								
Fixed Route Bus	Yes	No	Yes	No	No	No	No	No

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Long Island Bus		New Jersey Transit Corporation(NJ)		New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	Yes	No	No	No	No	No
Demand Responsive	Yes	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Have of plan to have Automatic Passenger Counters (APCs)?	Yes		Yes		No		No	
Methods used to count passengers								
Treadle Mats	No		No		No		No	
Infrared Beams	No		No		No		No	
Primary and Secondary Location Technologies Used								
<u>Primary Technologies</u>								
GPS	No	No	Yes	Yes	No	No	No	No
Differential GPS	Yes	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	Yes	No	No	No	No
<u>Backup Technologies</u>								
GPS	No	No	No	No	No	No	No	No
Differential GPS	No	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles with APCs								
Fixed Route Bus	0	336	3	240	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	0	0	NR	NR	NR	NR
Light Rail	NR	NR	0	40	NR	NR	NR	NR
Demand Responsive	NR	NR	0	0	NR	NR	NR	NR
Commuter Rail	NR	NR	0	820	NR	NR	NR	NR
Ferry Boat	NR	NR	0	0	NR	NR	NR	NR
Remote Real-Time Monitoring and Computer Assisted Dispatching								
<u>Remote Real-Time Monitoring</u>								
Fixed Route Bus	168	336	0	10	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	0	0	NR	NR	NR	NR
Light Rail	NR	NR	0	0	NR	NR	NR	NR
Demand Responsive	NR	NR	0	0	NR	NR	NR	NR

Transit Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Long Island Bus		New Jersey Transit Corporation(NJ)		New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	30	80	NR	NR	NR	NR
Ferry Boat	NR	NR	0	0	NR	NR	NR	NR
<u>Automated Dispatching or Control Software</u>								
Fixed Route Bus	326	336	1,900	1,900	170	NR	NR	NR
Heavy or Rapid Rail	NR	NR	0	0	NR	NR	NR	NR
Light Rail	NR	NR	0	40	NR	NR	NR	NR
Demand Responsive	59	72	0	0	NR	NR	23	27
Commuter Rail	NR	NR	745	820	NR	NR	NR	NR
Ferry Boat	NR	NR	0	0	NR	NR	NR	NR
Coordinate or plan to coordinate travel request and vehicle dispatching for multiple agencies?	Yes		No		No		No	
Is there or will there be a Transportation Management Center (TMC) in the region that controls transit and highway modes?	No		No		NR		Yes	
Modes that TMC currently controls:								
Highways	No	No	No	No	No	No	Yes	No
Fixed Route Bus	No	No	No	No	No	No	No	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Priority at Traffic Signals and Ramp Meter Priority								
<u>Priority at Traffic Signals</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
<u>Ramp Meter Priority</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Number of Vehicles Equipped with Navigation Aids								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	0	72	NR	NR	NR	NR	NR	27

Transit Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Long Island Bus		New Jersey Transit Corporation(NJ)		New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
ITS Standards Used Related to Transit Management								
TCIP On Board Objects (TCIP-OB)	No		No		No		No	
TCIP Traffic Management Objects (TCIP-TM)	No		No		No		No	
TCIP Common Public Transportation Objects (TCIP-CPT)	No		No		No		No	
TCIP Passenger Information Objects (TCIP-PI)	No		No		No		No	
TCIP Incident Management Objects (TCIP-IM)	No		No		No		No	
TCIP Fare Collection Objects (TCIP-FC)	No		No		No		No	
TCIP Spatial Representation Objects (TCIP-SP)	No		No		No		No	
TCIP Control Center Objects (TCIP-CC)	No		No		No		No	
TCIP Scheduling/Runcutting Objects (TCIP-SCH)	No		No		No		No	
Send data communication between micro computer and heavy duty vehicle applications (SAE J1708)	No		No		No		No	
Would agency be willing to participate in testing of ITS Standards?	Yes		Yes		Yes		Yes	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	Yes		No		No		No	
Electronic Fare Payment								
Have full operational Electronic Fare Payment System?	Yes		No		Yes		Yes	
Methods of Fare Payment								
<u>Stored value card with fare deducted for each trip</u>								
Magnetic Stripe	Yes		No		Yes		No	
Smart Card	No		No		No		No	
Debit Card	No		No		No		No	
<u>Billed by the month for trips taken</u>								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Credit Card	No		No		No		No	
<u>Monthly Pass</u>								
Magnetic Stripe	Yes		No		Yes		No	
Smart Card	No		No		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
<u>Magnetic Stripe Readers</u>								
Fixed Route Bus Vehicles	326	336	NR	NR	3,557	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	468	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Long Island Bus		New Jersey Transit Corporation(NJ)		New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005	1999	2005	1999	2005
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Smart Card Readers</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Credit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Debit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
NR: No Response								

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Putnam County Transit		Stamford Dial-A-Ride(CT)		Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of vehicles used in revenue service								
Fixed Route Bus	8	NR	NR	NR	141	160	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	2	NR	9	NR	22	38	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Have of plan to have an Automated Vehicle Location System?	No		No		Yes		No	
Primary and Secondary Location Technologies Used								
<i>Primary Technologies</i>								
GPS	No	No	No	No	No	Yes	No	No
Sign/Odometer	No	No	No	No	No	No	No	No
Dead-Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
<i>Backup Technologies</i>								
GPS	No	No	No	No	No	No	No	No
Sign/Odometer	No	No	No	No	No	No	No	No
Dead-Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles Equipped with AVL								
Fixed Route Bus	NR	NR	NR	NR	NR	160	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	38	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Motor Buses Operated as Vehicle Probes								
Number of Motor Buses equipped as probes on freeways?	NR		NR		NR		NR	
Number of Motor Buses equipped as probes on arterials?	NR		NR		NR		NR	
Have Organized Regional Incident Management Program?	No		No		No		No	

Transit Management
Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Putnam County Transit		Stamford Dial-A-Ride(CT)		Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005	1999	2005	1999	2005
Have Automated Traveler Information System?	No		No		Yes		No	
<u>Services Automated Traveler Info. System Applies:</u>								
Fixed Route	No		No		Yes		No	
Heavy Rail	No		No		No		No	
Light Rail	No		No		No		No	
Demand Responsive	No		No		No		No	
Commuter Rail	No		No		No		No	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public								
Number of bus stops on fixed transit routes	NR	NR	NR	NR	2,700	2,700	NR	NR
Bus stops on fixed transit routes that display traveler info to the public	NR	NR	NR	NR	NR	NR	NR	NR
Number of rail stations	NR	NR	NR	NR	NR	NR	NR	NR
Number of rail stations that display traveler information	NR	NR	NR	NR	NR	NR	NR	NR
Number of other locations that display traveler information to public	NR	NR	NR	NR	NR	NR	NR	NR
Number of vehicles the traveler information system has available								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Deployment of Communications Technology								
<u>Attributes of Radio System:</u>								
Digital?	No		No		No		No	
Analog?	Yes		Yes		Yes		No	
Trunked?	No		Yes		Yes		No	
Regular?	Yes		No		No		No	
Services that use a Digital or Trunked Radio System								
<u>Digital Only</u>								
Fixed Route Bus	No	No	No	No	No	Yes	No	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	Yes	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
<u>Trunked Only</u>								
Fixed Route Bus	No	No	No	No	Yes	No	No	No

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Putnam County Transit		Stamford Dial-A-Ride(CT)		Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005	1999	2005	1999	2005
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	Yes	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Have of plan to have Automatic Passenger Counters (APCs)?	No		No		No		No	
Methods used to count passengers								
Treadle Mats	No		No		No		No	
Infrared Beams	No		No		No		No	
Primary and Secondary Location Technologies Used								
<u>Primary Technologies</u>								
GPS	No	No	No	No	No	No	No	No
Differential GPS	No	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
<u>Backup Technologies</u>								
GPS	No	No	No	No	No	No	No	No
Differential GPS	No	No	No	No	No	No	No	No
Signpost/Odometer	No	No	No	No	No	No	No	No
Dead_Reckoning	No	No	No	No	No	No	No	No
LORAN C	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Number of Vehicles with APCs								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Remote Real-Time Monitoring and Computer Assisted Dispatching								
<u>Remote Real-Time Monitoring</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	160	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	38	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Putnam County Transit		Stamford Dial-A-Ride(CT)		Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
<u>Automated Dispatching or Control Software</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	38	NR	NR
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Coordinate or plan to coordinate travel request and vehicle dispatching for multiple agencies?	No		No		No		NR	
Is there or will there be a Transportation Management Center (TMC) in the region that controls transit and highway modes?	No		No		No		NR	
Modes that TMC currently controls:								
Highways	No	No	No	No	No	No	No	No
Fixed Route Bus	No	No	No	No	No	No	No	No
Heavy or Rapid Rail	No	No	No	No	No	No	No	No
Light Rail	No	No	No	No	No	No	No	No
Demand Responsive	No	No	No	No	No	No	No	No
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Other	No	No	No	No	No	No	No	No
Priority at Traffic Signals and Ramp Meter Priority								
<u>Priority at Traffic Signals</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
<u>Ramp Meter Priority</u>								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR
Number of Vehicles Equipped with Navigation Aids								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Putnam County Transit		Stamford Dial-A-Ride(CT)		Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005	1999	2005	1999	2005
Commuter Rail	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
ITS Standards Used Related to Transit Management								
TCIP On Board Objects (TCIP-OB)	No		No		No		No	
TCIP Traffic Management Objects (TCIP-TM)	No		No		No		No	
TCIP Common Public Transportation Objects (TCIP-CPT)	No		No		No		No	
TCIP Passenger Information Objects (TCIP-PI)	No		No		No		No	
TCIP Incident Management Objects (TCIP-IM)	No		No		No		No	
TCIP Fare Collection Objects (TCIP-FC)	No		No		No		No	
TCIP Spatial Representation Objects (TCIP-SP)	No		No		No		No	
TCIP Control Center Objects (TCIP-CC)	No		No		No		No	
TCIP Scheduling/Runcutting Objects (TCIP-SCH)	No		No		No		No	
Send data communication between micro computer and heavy duty vehicle applications (SAE J1708)	No		No		No		No	
Would agency be willing to participate in testing of ITS Standards?	No		No		Yes		NR	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	No		No		No		NR	
Electronic Fare Payment								
Have full operational Electronic Fare Payment System?	No		No		Yes		No	
Methods of Fare Payment								
<u>Stored value card with fare deducted for each trip</u>								
Magnetic Stripe	No		No		Yes		No	
Smart Card	No		No		No		No	
Debit Card	No		No		No		No	
<u>Billed by the month for trips taken</u>								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Credit Card	No		No		No		No	
<u>Monthly Pass</u>								
Magnetic Stripe	No		No		Yes		No	
Smart Card	No		No		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
<u>Magnetic Stripe Readers</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	160	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Putnam County Transit		Stamford Dial-A-Ride(CT)		Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005	1999	2005	1999	2005
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Smart Card Readers</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Credit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
<u>Debit Card</u>								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	NR	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
NR: No Response								

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Westchester County		Totals	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		17	
Number of vehicles used in revenue service				
Fixed Route Bus	344	NR	7,056	3,032
Heavy or Rapid Rail	NR	NR	5,774	0
Light Rail	NR	NR	22	40
Demand Responsive	54	NR	1,328	1,149
Commuter Rail	NR	NR	745	820
Ferry Boat	NR	NR	0	0
Have of plan to have an Automated Vehicle Location System?	Yes		7	
Primary and Secondary Location Technologies Used				
<i>Primary Technologies</i>				
GPS	No	No	0	4
Sign/Odometer	Yes	No	2	0
Dead-Reckoning	No	No	1	0
LORAN C	No	No	0	0
Other	No	Yes	2	1
<i>Backup Technologies</i>				
GPS	No	No	0	0
Sign/Odometer	Yes	Yes	1	1
Dead-Reckoning	No	No	0	1
LORAN C	No	No	0	0
Other	No	No	0	0
Number of Vehicles Equipped with AVL				
Fixed Route Bus	344	NR	2,614	6,253
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	0	54	59	191
Commuter Rail	NR	NR	0	0
Ferry Boat	NR	NR	0	0
Motor Buses Operated as Vehicle Probes				
Number of Motor Buses equipped as probes on freeways?	NR		0	
Number of Motor Buses equipped as probes on arterials?	NR		0	
Have Organized Regional Incident Management Program?	No		1	

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Westchester County		Totals	
	1999	2005	1999	2005
Have Automated Traveler Information System?	Yes		10	
<u>Services Automated Traveler Info. System Applies:</u>				
Fixed Route	Yes		9	
Heavy Rail	No		0	
Light Rail	No		1	
Demand Responsive	No		1	
Commuter Rail	Yes		3	
Ferry	No		0	
Locations where traveler information is displayed to public				
Number of bus stops on fixed transit routes	3,500	3,500	38,530	24,500
Bus stops on fixed transit routes that display traveler info to the public	0	0	160	1,504
Number of rail stations	NR	NR	584	585
Number of rail stations that display traveler information	NR	NR	16	31
Number of other locations that display traveler information to public	1	3	6	6
Number of vehicles the traveler information system has available				
Fixed Route Bus	0	0	413	588
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	0	0	0	0
Commuter Rail	NR	NR	0	0
Ferry Boat	NR	NR	0	0
Deployment of Communications Technology				
<u>Attributes of Radio System:</u>				
Digital?	No		5	
Analog?	Yes		11	
Trunked?	No		11	
Regular?	Yes		5	
Services that use a Digital or Trunked Radio System				
<u>Digital Only</u>				
Fixed Route Bus	No	No	3	2
Heavy or Rapid Rail	No	No	0	0
Light Rail	No	No	0	1
Demand Responsive	No	No	1	1
Commuter Rail	No	No	0	1
Ferry Boat	No	No	0	0
<u>Trunked Only</u>				
Fixed Route Bus	No	No	6	0

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Westchester County		Totals	
	1999	2005	1999	2005
Heavy or Rapid Rail	No	No	0	0
Light Rail	No	No	1	0
Demand Responsive	No	No	2	0
Commuter Rail	No	No	0	0
Ferry Boat	No	No	0	0
Have of plan to have Automatic Passenger Counters (APCs)?	Yes		5	
Methods used to count passengers				
Treadle Mats	No		0	
Infrared Beams	No		1	
Primary and Secondary Location Technologies Used				
<u>Primary Technologies</u>				
GPS	No	No	1	2
Differential GPS	No	No	1	0
Signpost/Odometer	No	No	0	0
Dead_Reckoning	No	No	0	0
LORAN C	No	No	0	0
Other	No	No	0	1
<u>Backup Technologies</u>				
GPS	No	No	0	0
Differential GPS	No	No	0	0
Signpost/Odometer	No	No	0	0
Dead_Reckoning	No	No	0	1
LORAN C	No	No	0	0
Other	No	No	0	0
Number of Vehicles with APCs				
Fixed Route Bus	NR	NR	3	676
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	40
Demand Responsive	NR	NR	0	0
Commuter Rail	NR	NR	0	820
Ferry Boat	NR	NR	0	0
Remote Real-Time Monitoring and Computer Assisted Dispatching				
<u>Remote Real-Time Monitoring</u>				
Fixed Route Bus	NR	NR	168	606
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	NR	NR	0	38

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Westchester County		Totals	
	1999	2005	1999	2005
Commuter Rail	NR	NR	407	457
Ferry Boat	NR	NR	0	0
<u>Automated Dispatching or Control Software</u>				
Fixed Route Bus	NR	NR	2,396	2,336
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	40
Demand Responsive	NR	NR	82	147
Commuter Rail	NR	NR	745	820
Ferry Boat	NR	NR	0	0
Coordinate or plan to coordinate travel request and vehicle dispatching for multiple agencies?	NR		2	
Is there or will there be a Transportation Management Center (TMC) in the region that controls transit and highway modes?	NR		2	
Modes that TMC currently controls:				
Highways	No	No	1	0
Fixed Route Bus	No	No	0	0
Heavy or Rapid Rail	No	No	0	0
Light Rail	No	No	0	0
Demand Responsive	No	No	0	0
Commuter Rail	No	No	0	0
Ferry Boat	No	No	0	0
Other	No	No	0	0
Priority at Traffic Signals and Ramp Meter Priority				
<u>Priority at Traffic Signals</u>				
Fixed Route Bus	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	NR	NR	0	0
<u>Ramp Meter Priority</u>				
Fixed Route Bus	NR	NR	0	0
Demand Responsive	NR	NR	0	0
Number of Vehicles Equipped with Navigation Aids				
Fixed Route Bus	NR	NR	0	0
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	NR	NR	0	99

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Westchester County		Totals	
	1999	2005	1999	2005
Commuter Rail	NR	NR	0	0
Ferry Boat	NR	NR	0	0
ITS Standards Used Related to Transit Management				
TCIP On Board Objects (TCIP-OB)	No		0	
TCIP Traffic Management Objects (TCIP-TM)	No		0	
TCIP Common Public Transportation Objects (TCIP-CPT)	No		0	
TCIP Passenger Information Objects (TCIP-PI)	No		0	
TCIP Incident Management Objects (TCIP-IM)	No		0	
TCIP Fare Collection Objects (TCIP-FC)	No		0	
TCIP Spatial Representation Objects (TCIP-SP)	No		0	
TCIP Control Center Objects (TCIP-CC)	No		0	
TCIP Scheduling/Runcutting Objects (TCIP-SCH)	No		0	
Send data communication between micro computer and heavy duty vehicle applications (SAE J1708)	No		0	
Would agency be willing to participate in testing of ITS Standards?	NR		7	
Have agreements in place with other agencies to use similar hardware and software to aid maintenance and interoperability?	NR		1	
Electronic Fare Payment				
Have full operational Electronic Fare Payment System?	No		9	
Methods of Fare Payment				
<u>Stored value card with fare deducted for each trip</u>				
Magnetic Stripe	No		6	
Smart Card	No		0	
Debit Card	No		0	
<u>Billed by the month for trips taken</u>				
Magnetic Stripe	No		1	
Smart Card	No		0	
Credit Card	No		0	
<u>Monthly Pass</u>				
Magnetic Stripe	No		5	
Smart Card	No		0	
Vehicles/Stations Equipped with Automated Payment Mechanism				
<u>Magnetic Stripe Readers</u>				
Fixed Route Bus Vehicles	NR	NR	4,263	916
Heavy or Rapid Rail Stations	NR	NR	468	0
Light Rail Stations	NR	NR	0	0
Demand Responsive Vehicles	NR	NR	0	0
Commuter Rail Stations	NR	NR	0	0

Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Westchester County		Totals	
	1999	2005	1999	2005
Ferry Boat Landings	NR	NR	0	0
<u>Smart Card Readers</u>				
Fixed Route Bus Vehicles	NR	NR	0	0
Heavy or Rapid Rail Stations	NR	NR	0	0
Light Rail Stations	NR	NR	0	0
Demand Responsive Vehicles	NR	NR	0	0
Commuter Rail Stations	NR	NR	0	0
Ferry Boat Landings	NR	NR	0	0
<u>Credit Card</u>				
Fixed Route Bus Vehicles	NR	NR	0	0
Heavy or Rapid Rail Stations	NR	NR	0	0
Light Rail Stations	NR	NR	0	0
Demand Responsive Vehicles	NR	NR	0	0
Commuter Rail Stations	NR	NR	0	0
Ferry Boat Landings	NR	NR	0	0
<u>Debit Card</u>				
Fixed Route Bus Vehicles	NR	NR	0	0
Heavy or Rapid Rail Stations	NR	NR	0	0
Light Rail Stations	NR	NR	0	0
Demand Responsive Vehicles	NR	NR	0	0
Commuter Rail Stations	NR	NR	0	0
Ferry Boat Landings	NR	NR	0	0
NR: No Response				

Appendix J
Transit Management Integration

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clarkstown Mini-Trans		Command Bus Company	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	None listed		None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clarkstown Mini-Trans		Command Bus Company	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	None listed	None listed	New York City Department of Transportation	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	Southeast Area Transit (Norwich), Northeast Area Transit (Waterbury)		None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<u>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</u>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<u>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</u>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Huntington Area Rapid Transit (HART)		Jamaica Buses	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	MTA Long Island Bus, New York City Transit Authority		Green Bus Lines, Triboro Coach Corporation, Command Bus company, Queens Surface Corporation, Liberty Lines Express, Incorporation, New York Bus Tours, Incorporated, MTA Long Island Bus, New York City Transit Authority	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<u>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</u>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<u>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</u>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Huntington Area Rapid Transit (HART)		Jamaica Buses	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	None listed		None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	Transcom	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	None listed	None listed	Transcom	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	MTA Long Island Bus		New Jersey Transit Corporation(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	New York City Department of Transportation, New York City Transit Authority		None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<u>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</u>				
<i>Receive Information</i>	None listed	None listed	None listed	TRANSCOM, Norfolk Southern, Conrail, Amtrak
<i>Share Infrastructure</i>	None listed	None listed	New Jersey Department of Transportation, New Jersey Highway Authority, New Jersey Turnpike Authority, New York City Department of Transportation, Port Authority of New York and New Jersey, Norfolk Southern, Conrail, Amtrak	New Jersey Department of Transportation, New Jersey Highway Authority, New Jersey Turnpike Authority, New York City Department of Transportation, Port Authority of New York and New Jersey, Norfolk Southern, Conrail, Amtrak
<u>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</u>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	MTA Long Island Bus		New Jersey Transit Corporation(NJ)	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	Bayonne City Public Works Department, Bergen County, Clifton City, East Orange City, Edison Township, Elizabeth City, Essex County, Hunterdon County, Irvington Township, Jersey City, Middlesex County, Monmouth County, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, Newark City, Ocean County, Passaic City, Patterson City, Somerset County, Union City, Union Township, Warren County	Bayonne City Public Works Department, Bergen County, Clifton City, East Orange City, Edison Township, Elizabeth City, Essex County, Hunterdon County, Irvington Township, Jersey City, Middlesex County, Monmouth County, New Jersey Department of Transportation, New Jersey Highway Authority, New York City Department of Transportation, Newark City, Ocean County, Passaic City, Patterson City, Somerset County, Union City, Union Township, Warren County
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	TRANSCOM	None listed	TRANSCOM, Amtrak	TRANSCOM, Amtrak, Norfolk Southern/Conrail
<i>Share Infrastructure</i>	None listed	None listed	New Jersey Department of Transportation, New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, Amtrak, Norfolk Southern/Conrail	New Jersey Department of Transportation, New Jersey Highway Authority, New Jersey Turnpike Authority, Port Authority of New York and New Jersey, Amtrak, Norfolk Southern/Conrail

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	None listed		None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Putnam County Transit		Stamford Dial-A-Ride(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	None listed		None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Putnam County Transit		Stamford Dial-A-Ride(CT)	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	None listed		None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed		None listed	
<u>Receiving real-time information via electronic means from others</u>				
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>				
<i>Receive Information</i>	None listed	None listed	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
Agency Returned Survey?	Yes	
<u>Transit operators in the region that use the same electronic payment system</u>	None listed	
<u>Toll operators from whom you accept electronic payment of transit fare through the use of ETC media</u>	None listed	
<u>Receiving real-time information via electronic means from others</u>		
<i>Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions</i>		
<i>Receive Information</i>	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed
<i>Arterial Management agencies from which your agency receives arterial travel times, speeds, and conditions</i>		
<i>Receive Information</i>	None listed	None listed

Transit Management Integration
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
<i>Share Infrastructure</i>	None listed	None listed
<i>Incident Management agencies from which your agency receives incident severity, location, and type</i>		
<i>Receive Information</i>	None listed	None listed
<i>Share Infrastructure</i>	None listed	None listed

Appendix K
Transit Management Information Collection and Dissemination

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clarkstown Mini-Trans		Command Bus Company	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	Kiosks, Internet Web Sites, Telephone System	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	Kiosks, Internet Web Sites, Telephone System	NR	NR	NR
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	NR		NR	
Telephone system for reporting transit information to the public	914.623.0667		NR	
Organizations your agency sends information for dissemination to the public	T.O.R.		NR	
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Trip itinerary planning records, Passenger count, Vehicle time and location	Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Trip itinerary planning records, Passenger count, Vehicle time and location	Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Passenger count, Vehicle time and location	NR

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clarkstown Mini-Trans		Command Bus Company	
	1999	2005	1999	2005
Archived by your agency	NR	NR	NR	NR
Transferred to another agency by your agency	Passenger count, Vehicle time and location	Passenger count, Vehicle time and location	NR	NR
Importance of making information available to the public				
Ranked High	Passenger count		NR	
Ranked Medium	Vehicle time and location		NR	
Ranked Low	NR		NR	
Groups that make requests for the data	Federal DOT personnel, State DOT personnel		Municipal	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Clarkstown Mini-Trans		Command Bus Company	
	1999	2005	1999	2005
What is the data used for?	Funding, Planning		Dissemination to the public, Planning	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	NR	NR	Internet Web Sites, Telephone System	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	Telephone System	Kiosks
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	NR		www.greenbus.com	
Telephone system for reporting transit information to the public	NR		718-995-4700 customer service	
Organizations your agency sends information for dissemination to the public	NR		NYC Transit Center <input type="checkbox"/> NYC DOT Battery Maritime Building <input type="checkbox"/> Kennedy Airport	
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	NR	Transit operations coordination information, Emergency/evacuation routes and procedures, Intermodal (air, rail, water) conditions, Scheduled roadway work zones for transit, Current roadway work zones for transit, Incidents, Weather conditions, Passenger count, Vehicle time and location	NR

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005
Archived by your agency	Passenger count	Transit operations coordination information, Vehicle monitoring status, Passenger information (e.g., surveys, O/D)	Incidents, Weather conditions, Passenger count, Vehicle time and location	NR
Transferred to another agency by your agency	NR	Incidents, Transit vehicle signal priority, Trip itinerary planning records, Vehicle time and location	Transit operations coordination information, Passenger count	NR
Importance of making information available to the public				
Ranked High		Transit operations coordination information, Incidents, Trip itinerary planning records, Vehicle time and location	Transit operations coordination information, Intermodal (air, rail, water) conditions	
Ranked Medium		Transit vehicle signal priority	Incidents, Passenger count	
Ranked Low		Passenger count	Scheduled roadway work zones for transit, Current roadway work zones for transit, Weather conditions	
Groups that make requests for the data		Advanced Traveler Information Systems (ATIS) providers, MPOs, Media (i.e., TV stations, radio stations), State DOT personnel	Consultants, Federal DOT personnel, State DOT personnel	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Connecticut Transit-Stamford(CT)		Green Bus Lines	
	1999	2005	1999	2005
What is the data used for?	Dissemination to the public, Planning		Planning, Construction impact determination	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Huntington Area Rapid Transit (HART)		Jamaica Buses	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	NR	NR	Internet Web Sites, Telephone System	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	NR		www.jamaicabus.com www.itravel.scog.ca.gov/itravel/	
Telephone system for reporting transit information to the public	NR		718-526-0800	
Organizations your agency sends information for dissemination to the public				
	NR		NR	
Data collected, archived, and/or transferred to another agency				
Collected by your agency				
	Intermodal (air, rail, water) conditions, Incidents, Passenger information (e.g., surveys, O/D), Passenger count	NR	Passenger count	NR

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Huntington Area Rapid Transit (HART)		Jamaica Buses	
	1999	2005	1999	2005
Archived by your agency	Intermodal (air, rail, water) conditions, Incidents, Passenger information (e.g., surveys, O/D), Passenger count	NR	Passenger count	NR
Transferred to another agency by your agency	Intermodal (air, rail, water) conditions, Incidents, Passenger information (e.g., surveys, O/D), Passenger count	NR	NR	NR
Importance of making information available to the public				
Ranked High	Intermodal (air, rail, water) conditions		NR	
Ranked Medium	NR		NR	
Ranked Low	Incidents, Passenger information (e.g., surveys, O/D), Passenger count		NR	
Groups that make requests for the data	Consultants, MPOs, Federal DOT personnel, State DOT personnel, Universities		City DOT	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Huntington Area Rapid Transit (HART)		Jamaica Buses	
	1999	2005	1999	2005
What is the data used for?	Planning		Do not know	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	NR	NR	Internet Web Sites, Telephone System	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	Monitors/VMS (not in vehicle), Telephone System	Variable Message Signs (in vehicle)
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	NR	Internet Web Sites, Telephone System	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	Telephone System	NR
Internet web site reporting transit routes, schedules and fare, etc.	NR		www.mta.nye.ny.us	
Telephone system for reporting transit information to the public	NR		1-800-638-7646 <input type="checkbox"/> 1-212-532-4900	
Organizations your agency sends information for dissemination to the public				
	NR		Transcom	
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Passenger count, Vehicle time and location, Route designations (snow emergency, etc), Incidents, Current roadway work zones for transit, Scheduled roadway work zones for transit, Emergency/evacuation routes and procedures	NR	Intermodal (air, rail, water) conditions, Incidents, Weather conditions, Passenger information (e.g., surveys, O/D), Passenger count	Passenger information (e.g., surveys, O/D)

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005
Archived by your agency	NR	NR	Incidents, Passenger information (e.g., surveys, O/D), Passenger count	NR
Transferred to another agency by your agency	NR	NR	Incidents	NR
Importance of making information available to the public				
Ranked High	Passenger count, Route designations (snow emergency, etc), Current roadway work zones for transit, Emergency/evacuation routes and procedures		Intermodal (air, rail, water) conditions, Weather conditions, Passenger information (e.g., surveys, O/D)	
Ranked Medium	Passenger information (e.g., surveys, O/D), Road conditions, Vehicle time and location, Scheduled roadway work zones for transit		Passenger count	
Ranked Low	Weather conditions, Trip itinerary planning records, Emergency vehicle signal preemption, Transit operations coordination information, Incidents, Intermodal (air, rail, water) conditions, Highway operations coordination information, Transit vehicle signal priority		Incidents	
Groups that make requests for the data	Consultants, MPOs, Federal DOT personnel, State DOT personnel, Universities		Media (I.e., TV stations, radio stations)	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Long Beach City		Metro-North Railroad MTA	
	1999	2005	1999	2005
What is the data used for?	Planning		Dissemination to the public	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	MTA Long Island Bus		New Jersey Transit Corporation(NJ)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	Audible Enunciators, Telephone System	Kiosks, Internet Web Sites	Internet Web Sites, Telephone System	Monitors/VMS (not in vehicle), Internet Web Sites, Telephone System
Real-time transit schedule adherence or arrival and departure times	NR	Monitors/VMS (not in vehicle), Kiosks	NR	Monitors/VMS (not in vehicle), Internet Web Sites, Telephone System
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	Internet Web Sites	Internet Web Sites	Internet Web Sites
Real-time transit schedule adherence or arrival and departure times	NR	Monitors/VMS (not in vehicle)	NR	Kiosks, Pagers or personal data assistants
Internet web site reporting transit routes, schedules and fare, etc.	www.mta.nyc.ny.us		www.njtransit.state.nj.us	
Telephone system for reporting transit information to the public	516-766-6722		973.762.5100	
Organizations your agency sends information for dissemination to the public	NR		Transcom	
Data collected, archived, and/or transferred to another agency				
Collected by your agency	Transit operations coordination information, Scheduled roadway work zones for transit, Current roadway work zones for transit, Incidents, Route designations (snow emergency, etc), Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Passenger count, Vehicle time and location	NR	Incidents, Weather conditions, Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Vehicle time and location	Transit operations coordination information, Incidents, Weather conditions, Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Passenger count, Vehicle time and location

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	MTA Long Island Bus		New Jersey Transit Corporation(NJ)	
	1999	2005	1999	2005
Archived by your agency	Transit operations coordination information, Incidents, Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Passenger count, Vehicle time and location	NR	Incidents, Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Vehicle time and location	Incidents, Weather conditions, Vehicle monitoring status, Passenger information (e.g., surveys, O/D), Passenger count, Vehicle time and location
Transferred to another agency by your agency	Transit operations coordination information	NR	NR	Transit operations coordination information, Incidents
Importance of making information available to the public				
Ranked High	Transit operations coordination information, Scheduled roadway work zones for transit, Route designations (snow emergency, etc), Vehicle time and location		Intermodal (air, rail, water) conditions, Current roadway work zones for transit, Incidents, Vehicle monitoring status, Vehicle time and location	
Ranked Medium	Passenger information (e.g., surveys, O/D)		operations coordination information, Emergency/evacuation routes and procedures, Scheduled roadway work zones for transit, Weather conditions, Passenger information (e.g., surveys, O/D)	
Ranked Low	Incidents, Vehicle monitoring status, Passenger count		Transit vehicle signal priority, Emergency vehicle signal preemption, Trip itinerary planning records, Passenger count	
Groups that make requests for the data	MPOs, Federal DOT personnel, State DOT personnel		Advanced Traveler Information Systems (ATIS) providers, Consultants	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	MTA Long Island Bus		New Jersey Transit Corporation(NJ)	
	1999	2005	1999	2005
What is the data used for?	Planning		Dissemination to the public	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	Kiosks, Internet Web Sites, Telephone System	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	Monitors/VMS (not in vehicle), Kiosks	Audible Enunciators, Monitors/VMS (not in vehicle), Kiosks	NR	NR
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	http://www.mta.nyc.ny.us/nyct/index.html		NR	
Telephone system for reporting transit information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	Passenger count, Trip itinerary planning records, Passenger information (e.g., surveys, O/D), Vehicle monitoring status, Emergency vehicle signal preemption, Vehicle time and location, Transit operations coordination information, Transit vehicle signal priority	NR	NR

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005
Archived by your agency	NR	NR	NR	NR
Transferred to another agency by your agency	NR	NR	NR	NR
Importance of making information available to the public				
Ranked High	Passenger count, Trip itinerary planning records, Passenger information (e.g., surveys, O/D), Vehicle monitoring status, Road conditions, Vehicle time and location, Transit operations coordination information, Incidents, Current roadway work zones for transit, Scheduled roadway work zones for transit, Intermodal (air, rail, water) conditions, Emergency/evacuation		NR	
Ranked Medium	Weather conditions, Emergency vehicle signal preemption, Route designations (snow emergency, etc), Highway operations coordination information, Transit vehicle signal priority		NR	
Ranked Low	NR		NR	
Groups that make requests for the data	Advanced Traveler Information Systems (ATIS) providers, Consultants, Media (i.e., TV stations, radio stations), Universities		NR	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	New York City Transit Authority		Norwalk Transit District/Westport Transit Lines(CT)	
	1999	2005	1999	2005
What is the data used for?	Dissemination to the public, Traffic analysis		NR	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Putnam County Transit		Stamford Dial-A-Ride(CT)	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	NR	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	NR		NR	
Telephone system for reporting transit information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Data collected, archived, and/or transferred to another agency				
Collected by your agency				
	Passenger count	NR	NR	NR

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Putnam County Transit		Stamford Dial-A-Ride(CT)	
	1999	2005	1999	2005
Archived by your agency	Passenger count	NR	NR	NR
Transferred to another agency by your agency	Passenger count	NR	NR	NR
Importance of making information available to the public				
Ranked High	Passenger count		NR	
Ranked Medium	Transit operations coordination information, Highway operations coordination information		NR	
Ranked Low	Itinerary planning records, Passenger information (e.g., surveys, O/D), Vehicle monitoring status, Road conditions, Emergency vehicle signal preemption, Route designations (snow emergency, etc), Incidents, Current roadway work zones for transit, Scheduled roadway work zones for transit, Intermodal (air, rail,		NR	
Groups that make requests for the data	Consultants, State DOT personnel		NR	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Putnam County Transit		Stamford Dial-A-Ride(CT)	
	1999	2005	1999	2005
What is the data used for?	Planning		NR	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Methods used to disseminate transit information to the public				
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares	Internet Web Sites	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	Internet Web Sites	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	www.sct-bus.org www.itravel.org		NR	
Telephone system for reporting transit information to the public	NR		NR	
Organizations your agency sends information for dissemination to the public	NR		NR	
Data collected, archived, and/or transferred to another agency				
Collected by your agency	NR	NR	NR	NR

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005
Archived by your agency	NR	NR	NR	NR
Transferred to another agency by your agency	NR	NR	NR	NR
Importance of making information available to the public				
Ranked High	NR		NR	
Ranked Medium	NR		NR	
Ranked Low	NR		NR	
Groups that make requests for the data	NR		NR	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Suffolk County		Triboro Coach Corporation	
	1999	2005	1999	2005
What is the data used for?	NR		NR	

NR: No Response

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
Agency Returned Survey?	Yes	
Methods used to disseminate transit information to the public		
Technologies your agency uses to disseminate:		
Transit routes, schedules and fares	Facsimile, Kiosks, Telephone System	Telephone System
Real-time transit schedule adherence or arrival and departure times	NR	Kiosks, Telephone System
Technologies employed by other organization receiving your data		
Transit routes, schedules and fares	NR	NR
Real-time transit schedule adherence or arrival and departure times	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	www.westchestergov.com/beeline	
Telephone system for reporting transit information to the public	914-682-2020 TDD- 914-682-4364	
Organizations your agency sends information for dissemination to the public	Transcom Metro Traffic	
Data collected, archived, and/or transferred to another agency		
Collected by your agency	NR	NR

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
Archived by your agency	NR	NR
Transferred to another agency by your agency	NR	NR
Importance of making information available to the public		
Ranked High	NR	
Ranked Medium	NR	
Ranked Low	NR	
Groups that make requests for the data	NR	

Data Collection and Dissemination: Transit Management
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Westchester County	
	1999	2005
What is the data used for?	NR	

NR: No Response

Appendix L
Emergency Management

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Total Vehicles		Navigation Capabilities		AVL	
	1999	2005	1999	2005	1999	2005
Amityville Fire District	11	11	0	0	0	0
Amityville Fire District Emergency Medical	1	1	0	0	0	0
Babylon Fire District	12	12	0	0	0	0
Babylon Fire District Emergency Medical	1	1	0	0	0	0
Babylon Town Fire Marsha & Hazardous Materials Response	8	8	0	0	0	0
Bayonne City Fire Department(NJ)	20	NR	0	NR	0	NR
Bridgeport City Emergency Medical Services(CT)	15	NR	0	NR	0	NR
Bridgeport City Fire Department(CT)	54	NR	0	NR	0	NR
Bridgeport City Police Department(CT)	188	NR	0	NR	0	NR
Clifton City Fire Department (EMS)(NJ)	5	5	0	0	0	0
Clifton City Fire Department(NJ)	17	17	0	0	0	0
Copique Fire District	11	11	0	0	0	0
Copique Fire District Emergency Medical	2	2	0	0	0	0
Deer Park Fire District	15	15	0	0	0	0
Deer Park Fire District Emergency Medical	3	3	0	0	0	0
East Farmingdale Fire District	12	12	0	0	0	0

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Total Vehicles		Navigation Capabilities		AVL	
	1999	2005	1999	2005	1999	2005
East Farmingdale Fire District Emergency Medical	3	3	0	0	0	0
Elizabeth City Emergency Medical Services(NJ)	9	NR	0	NR	0	NR
Elizabeth City Fire Department(NJ)	14	16	0	0	0	14
Elizabeth City Police Department(NJ)	68	NR	0	NR	40	NR
Greenburgh Town Emergency Medical Services	8	9	8	9	8	9
Greenburgh Town Police Department	23	25	15	17	15	17
Islip City Fire Department	16	NR	0	NR	0	NR
King County Sheriff	3	4	0	0	0	0
Lindenhurst Fire District Emergency Medical(NJ)	2	2	0	0	0	0
Lindenhurst Fire District(NJ)	12	12	0	0	0	0
Monmouth County Sheriff(NJ)	50	55	0	0	0	0
Mount Vernon City Emergency Medical Services	5	8	0	0	0	0
Mount Vernon City Fire Department	10	12	0	0	0	0
Mount Vernon City Police Department	44	NR	0	1	0	0
New Jersey Highway Authority(NJ)	123	NR	0	NR	0	NR
New Rochelle Fire Department	14	14	0	NR	0	NR
New York County Sheriff	52	55	0	0	0	0
North Amityville Fire District	11	11	0	0	0	0
North Amityville Fire District Emergency Medical	2	2	0	0	0	0
North Babylon Fire District	15	15	0	0	0	0

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Total Vehicles		Navigation Capabilities		AVL	
	1999	2005	1999	2005	1999	2005
North Babylon Fire District Emergency Medical	3	3	0	0	0	0
North Lindenhurst Fire District Emergency Medical(NJ)	2	2	0	0	0	0
North Lindenhurst Fire District(NJ)	10	10	0	0	0	0
Norwalk City Fire Department(CT)	9	11	0	6	0	0
Queens County Sheriff	26	30	0	0	0	0
Richmond County Sheriff	3	3	0	0	0	0
Suffolk County Emergency Medical Services	210	240	0	0	0	0

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

Agency Name	Total Vehicles		Navigation Capabilities		AVL	
	1999	2005	1999	2005	1999	2005
Suffolk County Fire Department	1,500	1,700	0	0	0	0
Sussex County Sheriff	33	NR	0	NR	0	NR
West Babylon Fire District	13	13	0	0	0	0
West Babylon Fire District Emergency Medical	3	3	0	0	0	0
Wyandanch Fire District	13	13	0	0	0	0
Wyandanch-Wheatley Heights Ambulance Services Emergency Medical	7	7	0	0	0	0
Yonkers Fire Department	30	30	0	30	0	30

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

CAD		CAD Equipped with Mobile Data Terminal		Vehicles Equipped with Preemption		Participate in Formal Incident Mgt Program	Send Incident Info to other agencies	List of agencies receiving data
1999	2005	1999	2005	1999	2005			
11	11	0	1	3	11	Yes	Yes	New York State Fire Prevention & Control
1	1	0	0	0	1	Yes	Yes	Suffolk County Emergency Medical Services, New York State Department of Health
12	12	0	1	4	12	Yes	Yes	New York State Fire Prevention & Control
1	1	0	0	1	1	Yes	Yes	Suffolk County Emergency Medical Services, New York State Department of Health
8	8	0	0	0	1	Yes	Yes	New York State Fire Prevention & Control
20	NR	0	NR	0	NR	Yes	Yes	Hudson County Office of Emergency Management
15	NR	0	NR	0	NR	Yes	Yes	None listed
54	NR	0	NR	9	NR	Yes	Yes	Emergency Operations Center, New York State Department of Health
188	NR	0	NR	0	NR	Yes	Yes	None listed
5	5	0	0	0	0	No	No	None listed
17	17	0	0	0	0	No	No	None listed
11	11	0	2	3	11	Yes	Yes	New York State Fire Prevention & Control
2	2	0	0	0	2	Yes	Yes	Suffolk County Emergency Medical Services, New York State Department of Health
15	15	1	2	5	15	Yes	Yes	New York State Fire Prevention & Control
3	3	0	0	2	3	Yes	Yes	Suffolk County Emergency Medical Services, New York State Health Department
12	12	1	1	12	12	Yes	Yes	New York State Fire Prevention & Control

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

CAD		CAD Equipped with Mobile Data Terminal		Vehicles Equipped with Preemption		Participate in Formal Incident Mgt Program	Send Incident Info to other agencies	List of agencies receiving data
1999	2005	1999	2005	1999	2005			
3	3	0	0	3	3	Yes	Yes	Suffolk County Emergency Medical Services, New York State Health Department
9	NR	0	NR	0	NR	Yes	No	None listed
2	14	0	3	0	NR	Yes	Yes	New Jersey Division of Fire Safety
68	NR	15	NR	0	0	Yes	No	None listed
8	9	8	9	0	0	Yes	Yes	Hudson Valley Regional EMS Council
23	25	15	17	0	0	No	No	None listed
0	NR	0	NR	0	NR	No	No	None listed
3	4	3	4	0	0	Yes	No	None listed
2	2	0	0	0	2	Yes	Yes	Emergency Medical
12	12	0	0	4	12	Yes	Yes	Fire Prevention &
0	0	0	10	0	0	Yes	No	None listed
0	8	0	8	0	0	No	No	None listed
0	12	0	12	0	0	No	No	None listed
44	NR	5	NR	0	0	Yes	Yes	Westchester County Crime
0	NR	0	NR	0	NR	Yes	Yes	TRANSCOM
0	14	0	14	0	NR	Yes	No	None listed
52	55	52	55	0	0	Yes	No	None listed
11	11	0	0	3	11	Yes	Yes	New York State Fire Prevention & Suffolk County Emergency Medical Services, New York State Health Department
2	2	0	0	1	2	Yes	Yes	New York State Fire Prevention &
15	15	0	1	5	15	Yes	Yes	

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

CAD		CAD Equipped with Mobile Data Terminal		Vehicles Equipped with Preemption		Participate in Formal Incident Mgt Program	Send Incident Info to other agencies	List of agencies receiving data
1999	2005	1999	2005	1999	2005			
3	3	0	0	3	3	Yes	Yes	Suffolk County Emergency Medical Services, New York State Health Department
2	2	0	0	2	2	Yes	Yes	Suffolk County Emergency Medical Services, New York State Health Department
10	10	0	1	5	10	Yes	Yes	New York State Fire Prevention & Connecticut Division of Public
0	11	0	6	1	1	Yes	Yes	None listed
26	30	26	30	0	0	Yes	No	None listed
3	3	3	3	0	0	Yes	No	None listed
0	0	0	0	50	200	Yes	Yes	Suffolk County Department of Public Works - Transp, New York State Emergency Management, New York City Office of Emergency Management, Suffolk County Police Department, Nassau County Emergency

Emergency Management Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

CAD		CAD Equipped with Mobile Data Terminal		Vehicles Equipped with Preemption		Participate in Formal Incident Mgt Program	Send Incident Info to other agencies	List of agencies receiving data
1999	2005	1999	2005	1999	2005			
15	1,500	0	1,000	100	1,500	Yes	Yes	Suffolk County Police Department, Suffolk County Health Department, Suffolk County Department of Public Works, New York State Emergency Management Agency, Nassau County Emergency Management Agency, New York City Office of
0	NR	0	NR	NR	NR	No	No	None listed
13	13	0	0	4	13	Yes	Yes	New York State Fire Prevention &
3	3	0	0	3	3	Yes	Yes	Suffolk County Emergency Medical Services, New York State Health Department
13	13	0	1	5	13	Yes	Yes	New York State Fire Prevention &
7	7	0	0	4	7	Yes	Yes	Suffolk County Emergency Medical Services, New York State Health Department
30	30	0	30	0	30	Yes	No	None listed

Appendix M
Electronic Toll Collection

Electronic Toll Collection
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Bridges & Tunnels/Bronx-Whitestone Bridge		MTA Bridges & Tunnels/Brooklyn Battery Tunnel		MTA Bridges & Tunnels/Cross Bay Bridge		MTA Bridges & Tunnels/Henry Hudson Bridge	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of toll Collection Plazas operated	0	0	0	0	0	0	0	0
Number of toll collection plazas with dedicated ETC	0	0	0	0	0	0	0	0
Number of toll collection plazas with both manual and ETC	0	0	0	0	0	0	0	0
Number of toll collection lanes operated	28	0	21	0	14	0	14	14
Number of toll collection lanes with dedicated ETC	8	0	7	0	6	0	9	0
Number of toll collection lanes with both manual and ETC	24	0	17	0	14	0	14	14
Number of toll collection tags issued	0	0	0	0	0	0	0	0
Antennae Location Technologies								
In-Pavement?	No		No		No		No	
Focused Beam?	No		No		No		No	
Distributed Overhead?	Yes		Yes		Yes		Yes	
In-Vehicle Equipment Technologies								
Tag-based?	Yes		Yes		Yes		Yes	
Integrated circuit card-based?	No		No		No		No	
Are toll tags used by other toll operations in metro area?	Yes		Yes		Yes		Yes	
List of toll operators that use tags	New York State Thruway Authority, Port Authority of NY & NJ		Port Authority of NY and NJ, New York State Thruway Authority		Port Authority of New York & New Jersey		New York State Thruway Authority, Port Authority of NY & NJ	
Are toll tags used by operators of public transit to pay transit fares in metro area?	No		No		No		No	
List of transit operators that use tags	None		None		None		None	
NR: No Response								

Electronic Toll Collection
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Bridges & Tunnels/Marine Parkway Bridge		MTA Bridges & Tunnels/Queens Midtown Tunnel		MTA Bridges & Tunnels/Throgs Neck Bridge (I-295)		MTA Bridges & Tunnels/Triborough Bridge (I-295)	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of toll Collection Plazas operated	0	0	0	0	0	0	0	0
Number of toll collection plazas with dedicated ETC	0	0	0	0	0	0	0	0
Number of toll collection plazas with both manual and ETC	0	0	0	0	0	0	0	0
Number of toll collection lanes operated	14	0	20	0	27	0	43	0
Number of toll collection lanes with dedicated ETC	8	0	6	0	11	0	15	0
Number of toll collection lanes with both manual and ETC	14	0	20	0	21	0	37	0
Number of toll collection tags issued	0	0	0	0	0	0	0	0
Antennae Location Technologies								
In-Pavement?	No		No		No		No	
Focused Beam?	No		No		No		No	
Distributed Overhead?	Yes		Yes		Yes		Yes	
In-Vehicle Equipment Technologies								
Tag-based?	Yes		Yes		Yes		Yes	
Integrated circuit card-based?	No		No		No		No	
Are toll tags used by other toll operations in metro area?	Yes		Yes		Yes		Yes	
List of toll operators that use tags	Port Authority of NY & NJ, New York State Thruway Authority		New York State Thruway Authority, Port Authority of NY and NJ		Port Authority of NY and NJ, New York State Thruway Authority		New York State Thruway Authority, Port Authority of NY and NJ	
Are toll tags used by operators of public transit to pay transit fares in metro area?	No		No		No		No	
List of transit operators that use tags	None		None		None		None	
NR: No Response								

Electronic Toll Collection
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	MTA Bridges & Tunnels/Verrazano-Narrows Bridge		New Jersey Highway Authority(NJ)		New Jersey Turnpike Authority(NJ)		New York State Thruway Authority	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of toll Collection Plazas operated	0	0	45	45	28	28	7	NR
Number of toll collection plazas with dedicated ETC	0	0	0	45	0	28	7	NR
Number of toll collection plazas with both manual and ETC	0	0	0	12	0	28	7	NR
Number of toll collection lanes operated	23	0	321	0	300	300	182	NR
Number of toll collection lanes with dedicated ETC	12	0	0	0	0	159	37	NR
Number of toll collection lanes with both manual and ETC	21	0	0	32	0	300	68	NR
Number of toll collection tags issued	0	0	0	0	0	0	730,000	NR
Antennae Location Technologies								
In-Pavement?	No		No		No		No	
Focused Beam?	No		Yes		No		No	
Distributed Overhead?	Yes		No		Yes		Yes	
In-Vehicle Equipment Technologies								
Tag-based?	Yes		Yes		Yes		Yes	
Integrated circuit card-based?	No		No		No		No	
Are toll tags used by other toll operations in metro area?	Yes		Yes		Yes		Yes	
List of toll operators that use tags	New York State Thruway Authority, Port Authority of NY & NJ		None		None		Port Authority of NY & NJ, NYS Bridge Authority, Delaware Department of Transportation, MTA Bridges and Tunnels, South Jersey Transportation Authority	
Are toll tags used by operators of public transit to pay transit fares in metro area?	No		No		No		No	
List of transit operators that use tags	None		None		None		None	
NR: No Response								

Electronic Toll Collection
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Port Authority of NY and NJ/Bayone Bridge		Port Authority of NY and NJ/George Washington Bridge		Port Authority of NY and NJ/Goethals Bridge		Port Authority of NY and NJ/Holland Tunnel	
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		Yes	
Number of toll Collection Plazas operated	1	1	3	3	1	1	1	1
Number of toll collection plazas with dedicated ETC	0	0	0	0	0	0	0	0
Number of toll collection plazas with both manual and ETC	1	1	3	3	1	1	1	1
Number of toll collection lanes operated	4	4	31	31	8	8	9	9
Number of toll collection lanes with dedicated ETC	1	2	0	17	0	4	0	6
Number of toll collection lanes with both manual and ETC	4	4	0	14	8	8	9	9
Number of toll collection tags issued	0	0	0	0	0	0	0	0
Antennae Location Technologies								
In-Pavement?	No		No		No		No	
Focused Beam?	Yes		Yes		Yes		Yes	
Distributed Overhead?	No		No		No		No	
In-Vehicle Equipment Technologies								
Tag-based?	Yes		Yes		Yes		Yes	
Integrated circuit card-based?	No		No		No		No	
Are toll tags used by other toll operations in metro area?	Yes		Yes		Yes		Yes	
List of toll operators that use tags	Metropolitan Transportation Authority, New York State Thruway Authority		Metropolitan Transportation Authority, New York State Thruway Authority		Metropolitan Transportation Authority, New York State Thruway Authority		Metropolitan Transportation Authority, New York State Thruway Authority	
Are toll tags used by operators of public transit to pay transit fares in metro area?	No		No		No		No	
List of transit operators that use tags	None		None		None		None	
NR: No Response								

Electronic Toll Collection
 Agencies for Metropolitan Area: New York, Northern New Jersey, Southwestern Connecticut

	Port Authority of NY and NJ/Lincoln Tunnel		Port Authority of NY and NJ/Outerbridge Crossing		Totals	
	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		18	17
Number of toll Collection Plazas operated	1	1	1	1	88	81
Number of toll collection plazas with dedicated ETC	0	0	0	0	7	73
Number of toll collection plazas with both manual and ETC	1	1	1	1	15	48
Number of toll collection lanes operated	14	14	11	11	1084	391
Number of toll collection lanes with dedicated ETC	0	5	0	5	120	198
Number of toll collection lanes with both manual and ETC	13	13	11	11	295	405
Number of toll collection tags issued	0	0	0	0	730,000	0
Antennae Location Technologies						
In-Pavement?	No		No		0	0
Focused Beam?	Yes		Yes		7	7
Distributed Overhead?	No		No		11	10
In-Vehicle Equipment Technologies						
Tag-based?	Yes		Yes		18	17
Integrated circuit card-based?	No		No		0	0
Are toll tags used by other toll operations in metro area?	Yes		Yes		18	17
List of toll operators that use tags	New York State Thruway Authority, Metropolitan Transportation Authority		New York State Thruway Authority, Metropolitan Transportation Authority			
Are toll tags used by operators of public transit to pay transit fares in metro area?	No		No		0	0
List of transit operators that use tags	None		None			
NR: No Response						