Tracking the Deployment of the Integrated Metropolitan ITS Infrastructure in Los Angeles, Anaheim, Riverside

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 Los Angeles, Anaheim, Riverside 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 Los Angeles, Anaheim, Riverside region was 80% in 1997 and 79% 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 Los Angeles, Anaheim, Riverside 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.

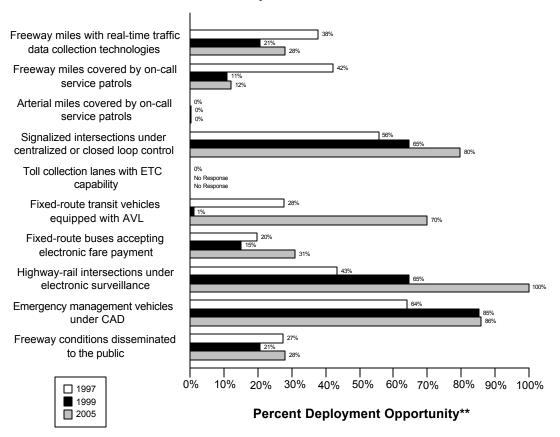
A critical aspect of ITS that provides much of its capability is the integration of individual components to form a unified regional traffic control system. Individual ITS components routinely collect information that is used for purposes internal to that component. For example, the Arterial Management 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."

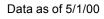
Data as of 5/1/00

Los Angeles, Anaheim, Riverside Summary Indicators*

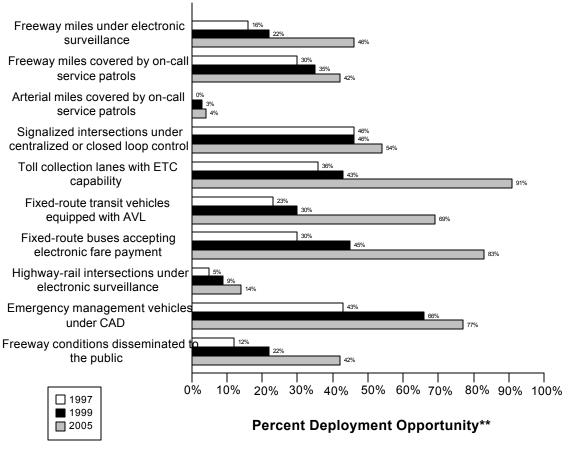


^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.

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



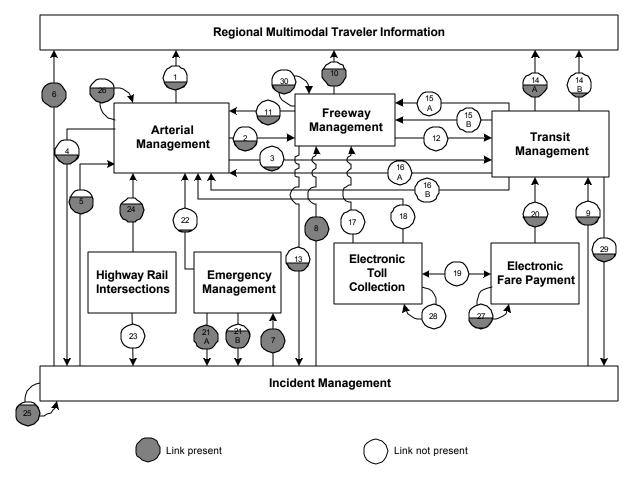




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Los Angeles, Anaheim, Riverside Integration Links



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

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

Part 3 - Detailed 1999 Survey Results

The following figures and tables summarize the complete set of component and integration indicators developed for the Los Angeles, Anaheim, Riverside 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%.

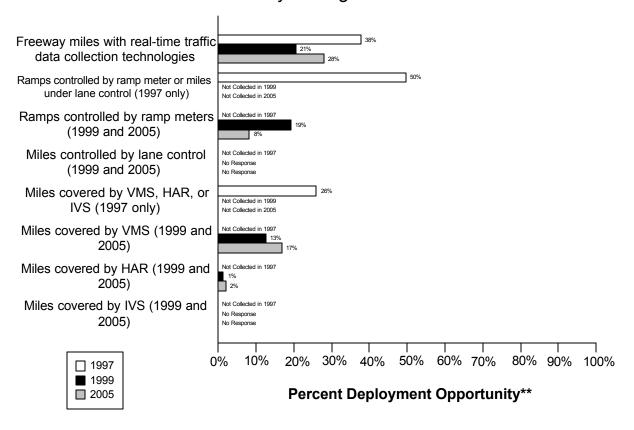
The summary indicator for the metropolitan area is calculated as (10%+0%+5%)/3 = 5%.

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%.

Los Angeles, Anaheim, Riverside Freeway Management*



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

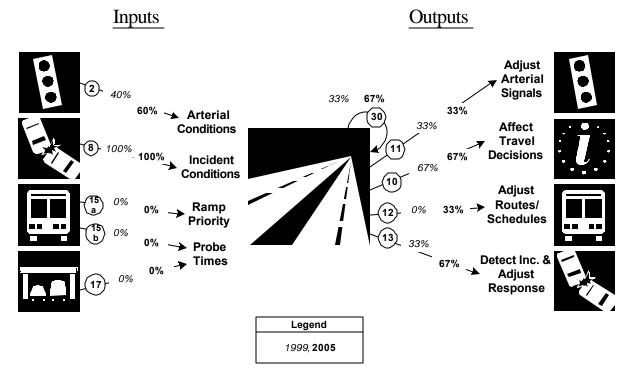
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Freeway centerline miles	540	1427	38%	294	1427	21%	400	1427	28%
are under electronic									
surveillance for									
monitoring traffic flow									
Freeway entrance ramps	1199	2410	50%						
are controlled by ramp									
meters or miles under lane									
control									

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Freeway entrance ramps are controlled by ramp meters				466	2410	19%	200	2410	8%
Freeway centerline miles will be controlled by lane control					1427			1427	
Freeway miles are covered by VMS, HAR, or IVS	371	1427	26%						
Freeway miles are covered by VMS				182	1427	13%	242	1427	17%
Freeway miles are covered by HAR				20	1427	1%	30	1427	2%
Freeway miles are covered by IVS					1427			1427	

Freeway Management Integration Indicators

Los Angeles, Anaheim, Riverside Freeway Management Integration*

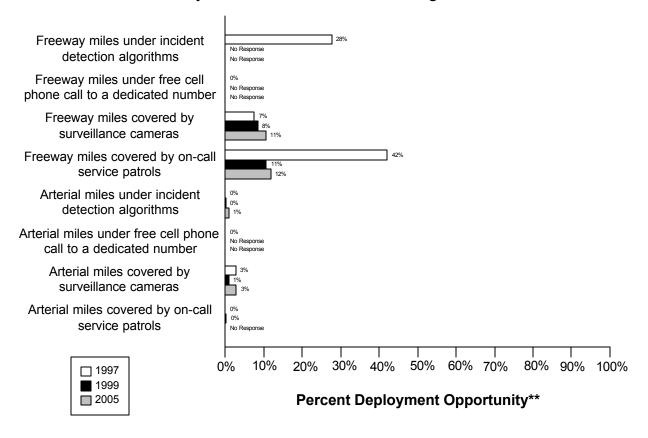


^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
2. Arterial Management agencies sending information to Freeway	(6/15)	(9/15)
Management	40%	60%
8. Incident Management agencies sending information to Freeway	(3/3)	(3/3)
Management	100%	100%
15a. Transit management agencies with vehicles equipped with	(0/ 17)	(0/17)
ramp meter priority	0%	0%
15b. Transit Management agencies with vehicles equipped as	(0/ 17)	(0/17)
probes	0%	0%
17. Freeway Management agencies receiving freeway conditions	(0/3)	(0/3)
from vehicle probes	0%	0%
30. Freeway Management agencies sending information to another	(1/3)	(2/3)
Freeway Management agency	33%	67%
11. Freeway Management agencies sending information to Arterial	(1/3)	(1/3)
Management	33%	33%

Link Description	1999	2005
10. Freeway Management agencies disseminating freeway	(2/3)	(2/3)
conditions to the public	67%	67%
12. Freeway Management agencies sending freeway conditions to	(0/3)	(1/3)
Transit Management	0%	33%
13. Freeway Management agencies sending freeway conditions to	(1/3)	(2/3)
Incident Management	33%	67%

Los Angeles, Anaheim, Riverside Freeway and Arterial Incident Management*



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

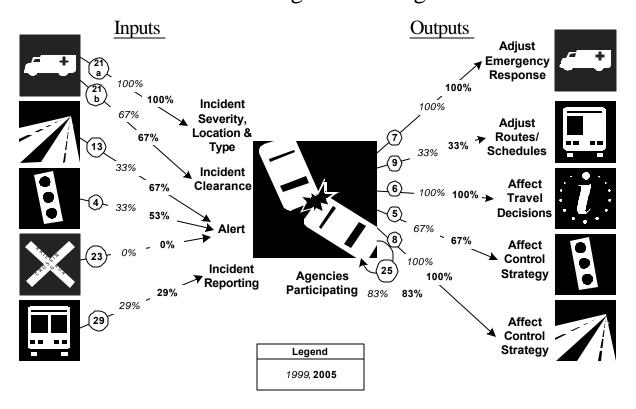
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Freeway miles are	395	1427	28%		1427			1427	
covered by incident									
detection algorithms									
Freeway miles are	0	1427	0%		1427			1427	
covered by free cellular									
phone calls to a									
dedicated number									

		1997		1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Freeway miles are	107	1427	7%	121	1427	8%	150	1427	11%
covered by surveillance									
cameras.									
Freeway miles are	601	1427	42%	153	1427	11%	170	1427	12%
covered by on-call									
publicly-sponsored									
service patrol or towing									
services.									
Arterial miles are	0	1052	0%	12	1052	0%	99	1052	1%
covered by incident		3			3			3	
detection algorithms									
Arterial miles are	0	1052	0%		1052			1052	
covered by free cellular		3			3			3	
phone calls to a									
dedicated number									
Arterial miles are	284	1052	3%	95	1052	1%	308	1052	3%
covered by surveillance		3			3			3	
cameras									
Arterial miles are	0	1052	0%	25	1052	0%		1052	
covered by on-call		3			3			3	
publicly-sponsored									
service patrol or towing									
services									

Incident Management Integration Indicators

Los Angeles, Anaheim, Riverside Incident Management Integration*

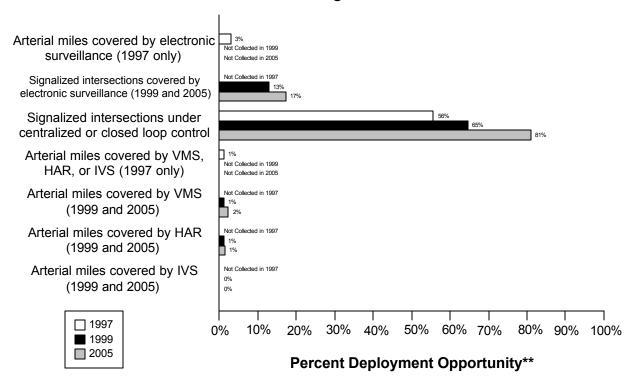


^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
21a. Incident management agencies receiving incident severity from	(3/3)	(3/3)
Emergency Management	100%	100%
21b. Incident management agencies receiving incident clearance	(2/3)	(2/3)
activities from Emergency Management	67%	67%
13. Freeway Management agencies sending freeway conditions to	(1/3)	(2/3)
Incident Management	33%	67%
4. Arterial Management agencies sending arterial conditions to Incident	(5/15)	(8/15)
Management	33%	53%
23. Arterial Management agencies receive information on highway-rail	(0/15)	(0/15)
intersection crossing blockages for the purpose of managing incident	0%	0%
response		
29. Transit Management agencies report traffic incidents as part of an	(5/17)	(5/ 17)
organized regional incident management program	29%	29%

Link Description	1999	2005
7. Incident management agencies transfer information describing	(3/3)	(3/3)
incident severity, location, and type to Emergency Management agencies	100%	100%
9. Incident Management agencies transfer information describing	(1/3)	(1/3)
incident severity, location, and type to Transit Management agencies	33%	33%
6. Incident Management agencies disseminate information describing	(3/3)	(3/3)
incident severity, location, and type to the public	100%	100%
5. Incident Management agencies transfer information describing	(2/3)	(2/3)
incident severity, location, and type to Arterial Management agencies	67%	67%
8. Incident Management agencies transfer information describing	(3/3)	(3/3)
incident severity, location, and type to Freeway Management agencies	100%	100%
25. Police, fire, and EMS agencies participating in a formal incident	(10/	(10/
management plan/team	12)	12)
	83%	83%

Los Angeles, Anaheim, Riverside Arterial Management*



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

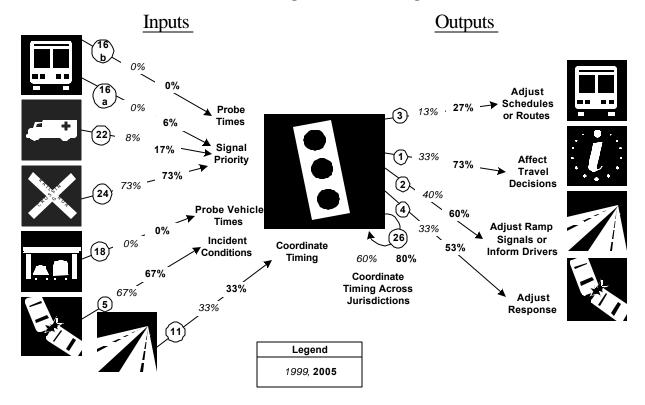
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997				1999		2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Arterial miles covered	309	1052	3%						
by electronic		3							
surveillance									
Signalized intersections				1036	8020	13%	1439	8331	17%
are covered by									
electronic surveillance									
for monitoring traffic									
flow									
Signalized intersections	5725	1029	56%	5187	8020	65%	6755	8331	81%
are under centralized or		2							
closed loop control									

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Arterial miles are	128	1052	1%						
covered by VMS, HAR,		3							
or IVS									
Arterial miles are				120	1052	1%	250	1052	2%
covered by VMS					3			3	
Arterial miles are				126	1052	1%	146	1052	1%
covered by HAR					3			3	
Arterial miles are				0	1052	0%	5	1052	0%
covered by IVS					3			3	

Arterial Management Integration Indicators

Los Angeles, Anaheim, Riverside Arterial Management Integration*

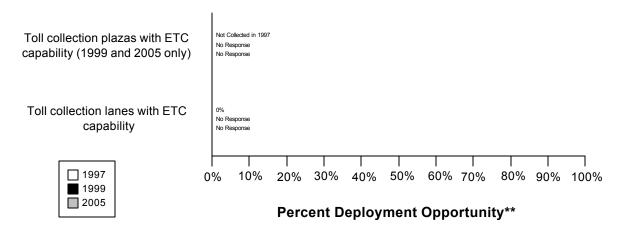


^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
16a. Transit management agencies with vehicles equipped with traffic	(0/ 17)	(1/17)
signal priority	0%	6%
16b. Transit Management agencies have vehicles equipped as probes on	(0/ 17)	(0/17)
arterials	0%	0%
22. Emergency Management agencies have vehicles equipped with	(1/12)	(2/12)
traffic signal preemption capability	8%	17%
24. Arterial Management agencies have traffic signals within 200 feet of	(11/	(11/
a highway rail intersection with the capability of having their signal	15)	15)
timing adjusted in response to a train crossing	73%	73%
18. Number of Arterial Management agencies receiving information	(0/15)	(0/15)
from vehicle probes	0%	0%
5. Incident Management agencies transfer information describing	(2/3)	(2/3)
incident severity, location, and type to Arterial Management	67%	67%

Link Description	1999	2005
11. Freeway Management agencies transfer freeway travel times,	(1/3)	(1/3)
speeds, and conditions to Arterial Management agencies	33%	33%
3. Arterial Management agencies transfer arterial travel times, speeds,	(2/15)	(4/15)
and conditions to Transit Management	13%	27%
1. Arterial Management agencies disseminate arterial travel times,	(5/15)	(11/
speeds, and conditions to the public	33%	15)
		73%
2. Arterial Management agencies send traffic condition information to	(6/15)	(9/15)
Freeway Management	40%	60%
4. Arterial Management agencies transfer arterial travel times, speeds,	(5/15)	(8/15)
and conditions to Incident Management	33%	53%
26. Arterial Management agencies under cooperative agreement to share	(9/15)	(12/
traffic signal timing for coordinated response	60%	15)
		80%

Los Angeles, Anaheim, Riverside Electronic Toll Collection*



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

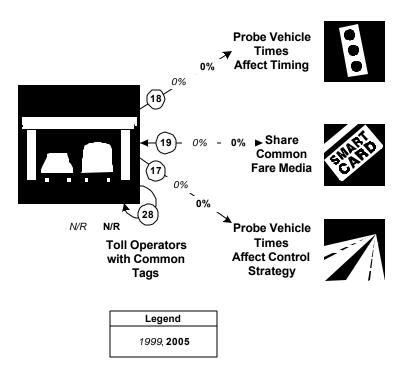
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Toll collection plazas									
with ETC capability									
Toll collection lanes	0	4	0%						
with ETC capability									

Electronic Toll Collection Integration Indicators

Los Angeles, Anaheim, Riverside Electronic Toll Collection Integration*

<u>Inputs</u> Outputs

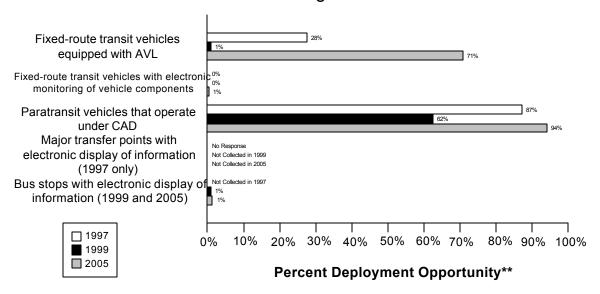


^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
18. Number of Arterial Management agencies receiving information	(0/15)	(0/15)
from vehicle probes	0%	0%
19. Transit agencies that accept electronic payment through the use of	(0/17)	(0/ 17)
electronic toll collection media	0%	0%
17. Freeway Management agencies receiving information from vehicle	(0/3)	(0/3)
probes	0%	0%
28. Toll operators using common toll tag technology	(0/)	(0/)

Data as of 5/1/00

Los Angeles, Anaheim, Riverside Transit Management*



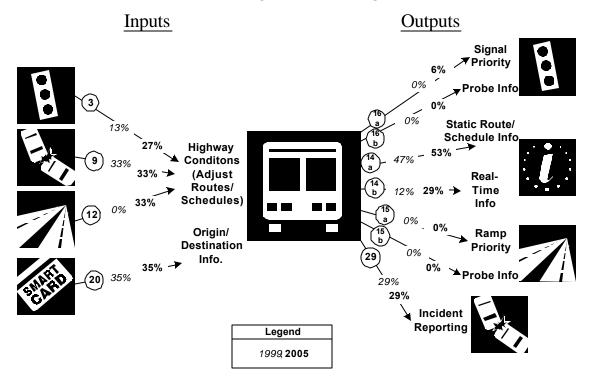
^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity.

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

	1997		1999			2005			
Description	Num	Den	%	Num	Den	%	Num	Den	%
Fixed-route transit	197	714	28%	10	1134	1%	1020	1443	71%
vehicles are equipped with AVL									
Fixed-route transit	0	714	0%	0	1134	0%	8	1443	1%
vehicles are equipped									
with electronic									
monitoring of vehicle									
Component Paratransit vehicles	351	403	87%	454	727	62%	807	858	94%
operate under	331	403	0770	434	121	0270	807	030	9470
computer-aided									
dispatch									
Percent fixed-route	1	0							
transfer locations with									
electronic display of									
information									
Bus stops display				30	3249	1%	50	3633	1%
information to the									
public									

Transit Management Integration Indicators

Los Angeles, Anaheim, Riverside Transit Management Integration*



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

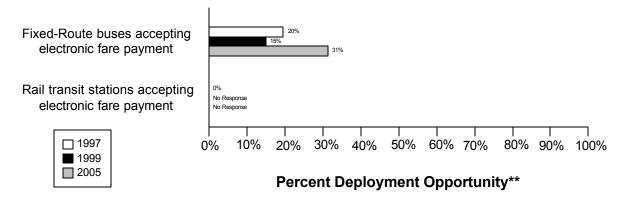
Link Description	1999	2005
3. Arterial Management agencies transfer arterial travel times, speeds,	(2/15)	(4/15)
and conditions to Transit Management	13%	27%
9. Incident management agencies transfer information describing	(1/3)	(1/3)
incident severity, location, and type to Transit Management	33%	33%
12. Freeway Management agencies transfer freeway travel times,	(0/3)	(1/3)
speeds, and conditions to Transit Management	0%	33%
20. Transit Management agencies using Electronic Fare Payment data in	(6/17)	(6/17)
transit service planning	35%	35%
16a. Transit Management agencies have vehicles equipped with traffic	(0/ 17)	(1/17)
signal priority capability	0%	6%
16b. Transit Management agencies have vehicles equipped as probes on	(0/ 17)	(0/17)
arterials	0%	0%
14a. Transit Management agencies disseminate information describing	(8/17)	(9/17)
transit routes, schedules, and fares to travelers	47%	53%

Link Description	1999	2005
14b. Transit Management agencies disseminate information describing	(2/17)	(5/ 17)
schedule/route adherence to travelers	12%	29%
15a. Transit Management agencies have vehicles equipped with ramp	(0/ 17)	(0/17)
meter priority capability	0%	0%
15b. Transit Management agencies have vehicles equipped as probes on	(0/ 17)	(0/17)
freeways	0%	0%
29. Transit Management agencies that report traffic incidents as part of	(5/17)	(5/ 17)
an organized regional Incident Management program	29%	29%

Data as of 5/1/00

Los Angeles, Anaheim, Riverside

Electronic Fare Payment*



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

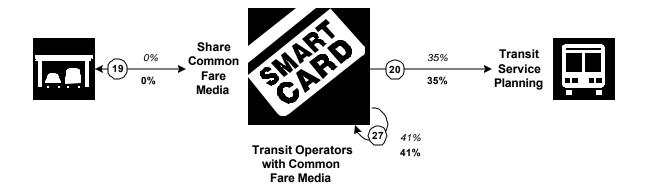
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Fixed-route transit vehicles that accept electronic payment	140	714	20%	169	1134	15%	452	1443	31%
Rail transit stations that accept electronic payment	0	45	0%		2			2	

Electronic Fare Payment Integration Indicators

Los Angeles, Anaheim, Riverside Electronic Fare Payment Integration*

<u>Inputs</u> <u>Outputs</u>



Legend	
1999	
2005	

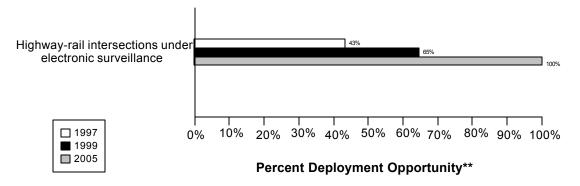
^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
19. Transit agencies that accept electronic payment through the use of	(0/ 17)	(0/ 17)
electronic toll collection media	0%	0%
20. Transit Management agencies use Electronic Fare Payment data in	(6/17)	(6/17)
transit service planning	35%	35%
27. Transit Management agencies that use the same electronic payment	(7/17)	(7/17)
system	41%	41%

Data as of 5/1/00

Los Angeles, Anaheim, Riverside

Highway-Rail Intersections*



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

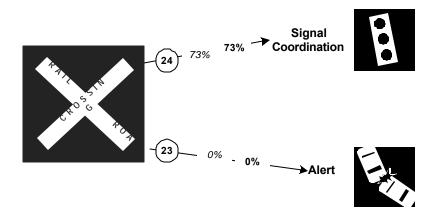
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Highway-rail intersections	78	180	43%	84	130	65%	130	130	100%
are under electronic surveillance									

Highway Rail Intersection Integration Indicators

Los Angeles, Anaheim, Riverside Highway Rail Intersections Integration*

<u>Inputs</u> <u>Outputs</u>



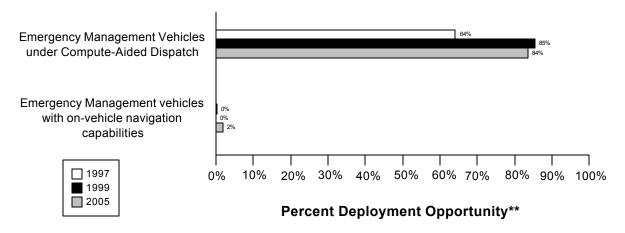
Legend						
1999, 2005						

^{*} 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	(11/	(11/
a highway rail intersection with the capability of having their signal	15)	15)
timing adjusted in response to a train crossing	73%	73%
23. Arterial Management agencies receive information on highway-rail	(0/15)	(0/15)
intersection crossing blockages for the purpose of managing incident	0%	0%
response		

Data as of 5/1/00

Los Angeles, Anaheim, Riverside Emergency Management*



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

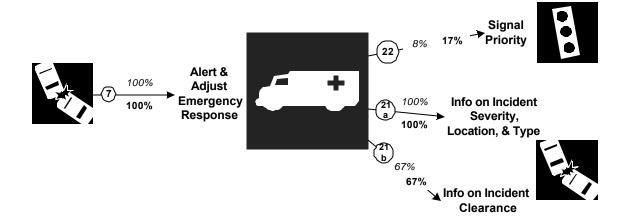
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Public sector emergency	961	1498	64%	1084	1268	85%	651	779	84%
vehicles that operate									
under computer-aided									
dispatch									
Public sector emergency	3	1498	0%	0	1268	0%	14	779	2%
vehicles that have in-									
vehicle route guidance									
capability									

Emergency Management Integration Indicators

Los Angeles, Anaheim, Riverside Emergency Management Integration*

<u>Inputs</u> <u>Outputs</u>



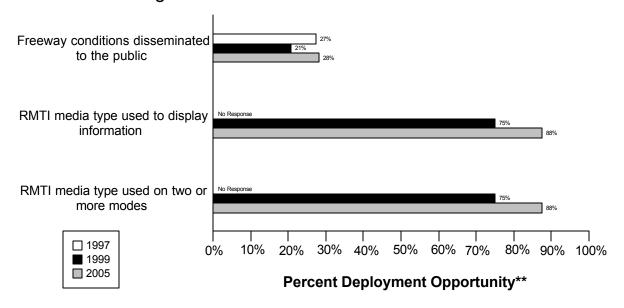
Legend						
	1999, 2005					

^{*} 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	(3/3)	(3/3)
incident severity, location, and type to Emergency Management agencies	100%	100%
22. Emergency Management agencies have vehicles equipped with	(1/12)	(2/12)
traffic signal preemption capability	8%	17%
21a. Freeway Management agencies receive incident severity, location,	(3/3)	(3/3)
and type data from Emergency Management agencies	100%	100%
21b. Freeway Management agencies receive incident clearance	(2/3)	(2/3)
activities information from Emergency Management agencies	67%	67%

Data as of 5/1/00

Los Angeles, Anaheim, Riverside Regional Multimodal Traveler Information*



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

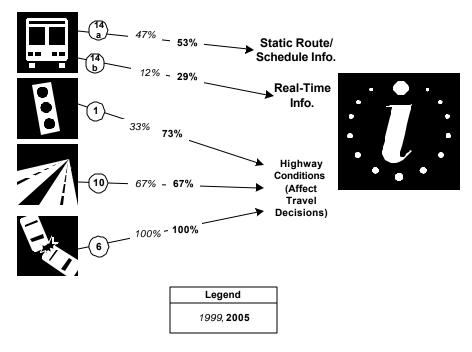
^{**} Deployment opportunity reflects potential totals that do not necessarily reflect actual need.

	1997			1999			2005		
Description	Num	Den	%	Num	Den	%	Num	Den	%
Freeway conditions	390	1427	27%	294	1427	21%	400	1427	28%
disseminated to									
travelers									
Possible RMTI media				6	8	75%	7	8	88%
types are used to									
display information to									
travelers									
Possible RMTI media				6	8	75%	7	8	88%
are used to display									
information on two or									
more modes to									
travelers									

Regional Multimodal Traveler Information Integration Indicators

Los Angeles, Anaheim, Riverside Regional Multimodal Traveler Information Integration*

<u>Inputs</u> <u>Outputs</u>

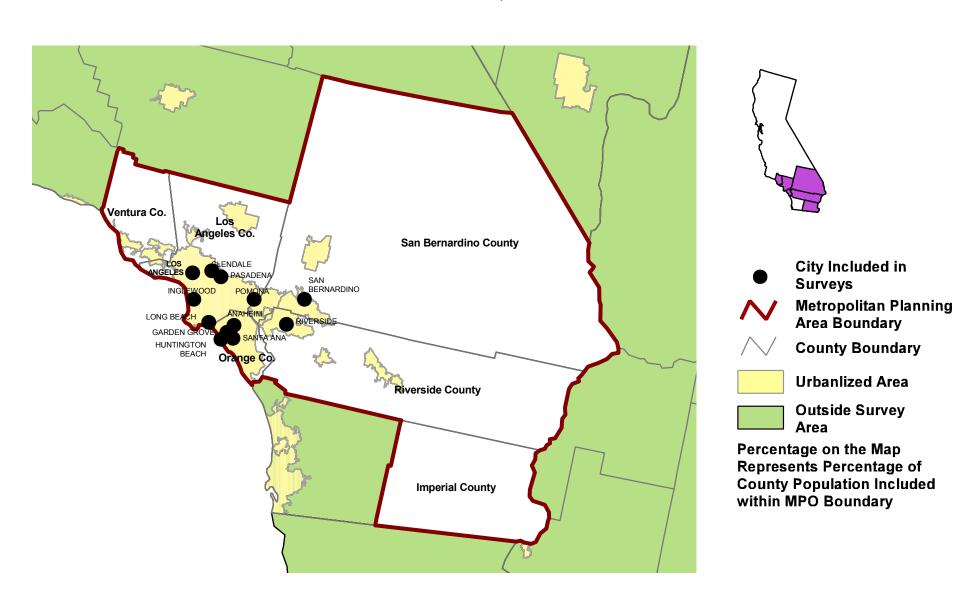


^{*} Indicators are single surrogates that do not necessarily reflect the full breadth of ITS deployment activity

Link Description	1999	2005
14a. Transit Management agencies that disseminate information	(8/17)	(9/17)
describing transit routes, schedules, and fares to travelers	47%	53%
14b. Transit Management agencies that disseminate information	(2/17)	(5/ 17)
describing schedule/route adherence to travelers	12%	29%
1. Arterial Management agencies that disseminate arterial travel times,	(5/15)	(11/
speeds, and conditions to the public	33%	15)
		73%
10. Freeway Management agencies that disseminate freeway travel	(2/3)	(2/3)
times, speeds, and conditions to travelers	67%	67%
6. Incident Management agencies that disseminate information	(3/3)	(3/3)
describing incident severity, location, and type to the public	100%	100%

Appendix A Survey Coverage Area

SOUTH CALIFORNIA ASSOCIATION OF GOVERNMENTS, CA



Appendix B Surveyed Agencies

Surveyed Agencies

Agency Name	Phone	Fax	199	99	19	1997	
			Out	In	Out	In	
	LOS ANGELES,	ANAHEIM, RIVERS	IDE				
Arterial Management	<u> </u>	·					
Riverside City	(909) 782-5368	(909) 782-2570	7/29/1999	9/20/1999	9/19/1997		
Caltrans District 8	(909) 383-5976	(909) 383-7507	7/29/1999		9/19/1997	10/21/1997	
Inglewood City	(310) 412-5424	(310) 412-5552	7/29/1999	9/23/1999	9/19/1997	10/3/1997	
Los Angeles County	(626) 458-5937	(626) 458-5936	7/29/1999		9/19/1997	12/23/1997	
Santa Ana City	(714) 647-5604	(714) 647-5616	7/29/1999	10/11/1999	9/19/1997	10/9/1997	
Long Beach City	(562) 570-6331	(562) 570-7161	7/29/1999	9/23/1999	9/19/1997	11/3/1997	
Caltrans District 7	213-897-1349	213-897-3639			9/19/1997	10/10/1997	
Los Angeles City	(213) 580-5359	(213) 580-5580	7/29/1999	8/16/1999	9/19/1997	10/14/1997	
Pomona City	(909) 620-2261	(909) 620-2269	7/29/1999	9/16/1999	9/19/1997	10/7/1997	
Pasadena City	(626) 744-4703	(626) 744-4757	7/29/1999	10/15/1999	9/19/1997	10/13/1997	
Costa Mesa City	(714) 754-5183	(714) 754-5028	7/29/1999	8/16/1999	9/19/1997	10/14/1997	
Garden Grove City	(714) 741-5190	(714) 741-5578	7/29/1999	9/17/1999	9/19/1997	10/27/1997	
Glendale City	(818) 548-3960	(818) 409-7027	7/29/1999	8/16/1999	9/19/1997	10/8/1997	
Huntington Beach City	(714) 374-1548	(714) 374-1573	7/29/1999	8/20/1999	9/19/1997		
Anaheim City	(714) 765-5162	(714) 765-4493	7/29/1999	9/16/1999	9/19/1997	10/1/1997	
Caltrans District 12	(949) 724-2664	(949) 724-2914	7/29/1999	10/19/1999	9/19/1997	10/14/1997	
San Bernardino City	(909) 384-5213	(909) 384-5155	7/29/1999	8/13/1999	9/19/1997	10/20/1997	
Emergency Management				-			
Santa Ana City Fire Department	(714) 647-5745	(714) 647-5779	6/28/1999		5/26/1998	5/26/1998	
Costa Mesa Police Department	(714) 754-5100	(714) 754-5001	6/28/1999	7/6/1999	5/28/1998	5/28/1998	
Garden Grove City Police Department	(714) 741-5704	(714) 741-5955	6/28/1999	7/21/1999	9/19/1997	10/31/199	
Garden Grove City Fire & EMS Department	(714) 741-5190	(714) 741-5578	6/28/1999	7/2/1999	9/19/1997		
Glendale City Fire Department	818-548-4021	818-409-7027	6/28/1999	6/30/1999	9/19/1997		
Pasadena City Police Dept.	626-744-4263	626-744-4757			9/19/1997		
Glendale City Police Department	818-548-3143	818-507-0967	7/6/1999	9/9/1999	9/19/1997		
Los Angeles County Sheriff Dept	626-458-5937	626-458-5936			9/19/1997		
Los Angeles City Police Department	213-580-5359	213-580-5580			9/19/1997		
Long Beach City Police Dept	562-570-6331	562-570-7161			9/19/1997	11/3/1997	
Caltrans District 8	909-383-5976	909-383-7507			9/19/1997	10/21/1997	
Inglewood City Fire Department	310-412-5354	310-412-5673	6/28/1999	8/4/1999	9/19/1997	10/17/1997	
Huntington Beach City Police Dept.	714-536-5523	714-374-1573			9/19/1997		
Riverside Police Department	(909) 351-6015	(909) 351-6038	6/28/1999	7/16/1999	5/28/1998	5/28/1998	

Agency Name	Phone	Fax	199	99	1997	
			Out	In	Out	In
San Bernardino County Police Department	(909) 384-5742	(909) 388-4838	6/28/1999	7/2/1999	7/27/1998	7/27/1998
Pomona Police Department	(909) 620-2138	(909) 620-3706	6/28/1999	7/28/1999	6/22/1998	6/22/1998
Santa Ana City Police Department	(714) 245-8061	(714) 245-8092	6/28/1999	7/2/1999	7/27/1997	7/27/1997
Anaheim City Fire Department	(714) 991-8801	(714) 533-6038	6/28/1999		5/27/1998	5/27/1998
Inglewood City Police Department	310-412-5200	310-412-8798	6/28/1999		9/19/1997	10/17/1997
Anaheim Police Department	(714) 765-1807	(714) 765-1664	6/28/1999	7/1/1999	5/28/1998	5/28/1998
Caltrans District 7	(213) 897-0310	(213) 897-0288	6/28/1999	7/2/1999	9/19/1997	10/10/1997
San Bernardino County Fire Department	909-387-5974	909-387-5542	6/28/1999		5/27/1998	5/27/1998
Freeway Management		·				
Caltrans District 12	(949) 724-2664	(949) 724-2914	7/29/1999	8/24/1999	9/19/1997	10/14/1997
Caltrans District 8	(909) 383-5976	(909) 383-7507	7/29/1999	8/30/1999	9/19/1997	10/21/1997
Caltrans District 7	(213) 897-0310	(213) 897-0288	7/29/1999		9/19/1997	10/10/1997
MPO		·				
South California Association of Governments	(213) 236-1800	(213) 236-1964	7/16/1999	8/9/1999		
Transit Management						
Culver City Municipal Bus Lines	(310) 253-6535	(310) 253-6513	8/9/1999		7/18/1997	7/23/1997
Laguna Beach Municipal Transit Lines	(949) 497-0340	(949) 497-0771	8/9/1999	8/16/1999	7/18/1997	10/20/1997
Long Beach Public Transportation Company	(562) 599-8521	(562) 000-0000	8/9/1999	9/27/1999	7/18/1997	7/30/1997
Victor Valley Transit Authority	(760) 948-4330	(760) 948-1380	8/9/1999	9/23/1999	7/18/1997	8/7/1997
Montebello Bus Lines	(323) 887-4605	(323) 887-4643	8/9/1999	11/15/1999	7/18/1997	7/28/1997
South Coast Area Transit	(805) 483-3959	(805) 487-0925	8/9/1999	9/2/1999	8/15/1997	8/26/1997
Santa Monica Municipal Bus Lines	(310) 458-8301	(310) 917-6640	8/9/1999		7/18/1997	7/30/1997
Norwalk Transit System	(562) 929-5533	(562) 929-5572	8/9/1999	10/15/1999	7/18/1997	7/29/1997
Simi Valley Transit	(805) 583-6481	(805) 583-6402	8/9/1999	10/1/1999	9/18/1997	10/10/1997
Southern California Regional Rail Authority	(213) 452-0264	(213) 452-0422	8/9/1999	8/23/1999	7/18/1997	7/21/1997
Commerce City Municipal Buslines	(323) 887-4419	323-724-2776	8/9/1999	1/10/2000	7/18/1997	10/20/1997
Torrance City Transit System	(310) 781-6927	(310) 618-6229	8/9/1999	9/13/1999	7/18/1997	
Orange County Transportation Authority	(714) 560-5961	(714) 560-5880	8/9/1999	8/24/1999	8/15//1997	
Corona City Dial-A-Ride	(909) 736-2235	(909) 279-3627	8/9/1999	9/24/1999	7/21/1997	7/24/1997
Arcadia Transit	(626) 574-5435	(626) 447-3309	8/9/1999	8/19/1999	8/29/1997	9/5/1997
Antelope Valley Transit Authority	(805) 726-2616	(805) 726-2615	8/9/1999	9/27/1999	7/18/1997	
Gardena City	(310) 217-9547	(310) 538-1989	8/9/1999		7/18/1997	
Los Angeles City	(213) 580-5436	(213) 580-5458	8/9/1999	9/7/1999	7/18/1997	7/29/1997
Access Services Incorporated	(213) 270-609	(213) 270-6058	8/9/1999	9/24/1999	7/18/1997	7/28/1997
La Mirada City Transit	(562) 943-0131	(562) 943-1464	8/9/1999	10/15/1999	7/18/1997	

Appendix C Freeway Management Components

	Caltrans	District 12	Caltrans	District 7	Caltrans	District 8	Tot	tals
	1999	2005	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		Yes		3	
FREEWAY MANAGEMENT SECTION								
Number of freeway centerline miles that agency owns or maintains	220		NR		NR		220	
Number of freeway centerline miles that is used for planning	220		NR		NR		220	
Number of freeway entrance ramps that agency owns, operates or maintains	281		NR		NR		281	
Number of freeway entrance ramps that is used for planning	281		NR		NR		281	
Type of facilities used to conduct freeway/incident management activities								
Activities housed in a free-standing dedicated building?	No		No		No		0	
Activities housed in a building shared with other activities?	No		No		Yes		1	
Activities conducted in a dedicated control room?	Yes		No		Yes		2	
Control room contains operator console(s)?	No		No		Yes		1	
Control room contains electronic wall map?	No		No		Yes		1	
Control room contains CCTV display(s)?	No		No		Yes		1	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		No		No		0	
Facilities are electronically linked to other transportation mgt facilities?	No		No		No		0	
Staffing and hours of operation of freeway/incident management activities								
Number of full-time agency staff members	NR		NR		5		5	
Number of full time contractor staff members	NR		NR		0		0	
Number of part-time agency staff members	NR		NR		2		2	
Number of part-time contractor staff members	NR		NR		0		0	
Staffed 24 hours day by agency staff or by others	agency		NR		NR		0	
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		No		0	
Agency staff dedicated to transportation management duty	No		No		Yes		1	
Types of operations conducted for freeway/incident management								
Incident detection and management?	Yes		No		Yes		2	
This metropolitan area?	No		No		Yes		1	
Other metropolitan area?	No		No		No		0	
Statewide?	No		No		No		0	
Monitoring and troubleshooting status of system components?	Yes		No		Yes		2	
Manual override of ramp metering rates at freeway on-ramps?	No		No		No		0	
Operating transportation management roadside devices?	Yes		No		Yes		2	
Radio communications with other agencies?	Yes		No		No		1	
Exchange of electronic data with other agencies such as computer aided dispatch?	Yes		No		Yes		2	
Real-Time Traffic Data Collection Technologies								
Total number of miles under surveillance with real-time data collection tech.	223	250	NR	NR	71	150	294	400

	Caltrans	District 12	Caltrans	District 7	Caltrans	District 8	Tot	tals
	1999	2005	1999	2005	1999	2005	1999	2005
Number of Stations with data collection technologies								
Loop detectors	588	630	0	0	167	250	755	880
Video imaging detectors	4	4	0	0	0	0	4	4
Probe readers (elec. toll tags, transit vehicles, other technology)	0	0	0	0	0	0	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
Number of Miles covered with data collection technologies			U	, ,	U	- U		
Loop detectors	223	250	0	0	71	150	294	400
Video imaging detectors	1	1	0	0	0	0	1	1
Probe readers (elec. toll tags, transit vehicles, other technology)	0	0	0	0	0	0	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	40	52	NR	NR	33	45	73	97
Candidate locations for deployment of VMS	52	52	NR	NR	NR	NR	52	52
Roadside Technologies used to Distribute Traveler Information								
Total number of miles where information is distributed	20	30	NR	NR	NR	NR	20	30
Number deployed								
Highway advisory radio	2	3	0	0	4	7	6	10
In-vehicle signing	0	0	0	0	0	0	0	0
Portable variable message signs	0	0	0	0	7	18	7	18
Other	0	0	0	0	0	0	0	0
Miles covered								
Highway advisory radio	20	30	0	0	NR	NR	20	30
In-vehicle signing	0	0	0	0	0	0	0	0
Portable variable message signs	0	0	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	330	370	NR	NR	136	200	466	570
Number of entrance ramp meters operated under central control	0	370	NR	NR	NR	200	0	570
Number of entrance ramp meters that provide preemption for emergency vehicles	0	0	NR	NR	NR	NR	0	0
Number of entrance ramp meters that provide priority for transit vehicles	0	0	NR	NR	NR	NR	0	0
Total number of metered ramps	330	NR	NR	NR	136	200	466	200
Freeway centerline miles under lane control	NR	NR	NR	NR	NR	NR	0	0
Communication Links								
Freeway centerline miles covered by the following type of communication			_	_		_		
Twisted pair cable	120	30	0	0	0	0	120	30
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	50	140	0	0	86	150	136	290
Microwave radio	0	0	0	0	13	13	13	13
Other	0	0	0	0	0	0	0	0
ITS Standards Used Related to Freeway Management							ļ	<u> </u>
ATMS Data Dictionary Sections 1 and 2 (ITE TM 1.01)	Yes		No		No		1	

	Caltrans	District 12	Caltrans	District 7	Caltrans	District 8	To	tals
	1999	2005	1999	2005	1999	2005	1999	2005
ATMS Data Dictionary Sections 3 and 4 (ITE TM 1.02)	No		No		No		0	
Message Set for External TMC Communication (ITE-9604-1)	Yes		No		No		1	
NTCIP Class B Profile (AASHTO TS 3.3)	No		No		No		0	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		No		0	
NTCIP Object Definitions for Environmental Sensor Stations (AASHTO TS 3.7)	No		No		No		0	
NTICP Object Definitions for Dynamic Message Signs (AASHTO TS 3.6)	No		No		No		0	
NTICP Object Definitions for Highway Advisory Radio (AASHTO TS 3.HAR)	No		No		No		0	
NTICP Object Definitions for Ramp Meter Control (AASHTO TS 3.RMC)	No		No		No		0	
NTICP Object Definitions for Transportation Sensor Systems (AASHTO TS 3.TSS)	No		No		No		0	
NTICP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		No		0	
Would agency be willing to participate in testing of ITS Standards?	Yes		NR		Yes		2	
Have agreements in place with other agencies to use similar hardware								
and software to aid maintenance and interoperability?	No		NR		Yes		1	
INCIDENT MANAGEMENT SECTION								
Use of Service Patrols to Assist in Detection and Response to Incidents								
Publicly operated service patrol vehicles	No		No		No		0	
Privately operated service patrol vehicles operated under public contract	Yes		Yes		Yes		3	
Total number of freeway miles patrolled by these services	153	170	NR	NR	NR	NR	153	170
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	0	0
Police patrols	153	NR	NR	NR	NR	NR	153	0
Computer algorithms linked to traffic surveillance equipment	NR	NR	NR	NR	NR	NR	0	0
CCTV	40	NR	NR	NR	81	150	121	150
Private sector sources (e.g., Shadow Traffic, SmartRoutes)	NR	NR	NR	NR	NR	NR	0	0
Other (e.g., free cell phone call to an area radio system, etc.)	NR	NR	NR	NR	NR	NR	0	0
Procedures in place for Freeway Incident Response?								
Working agreement(s)/arrangement(s) with other agencies	Yes		No		Yes		2	
Inter-agency incident management admin. team that meets regularly	Yes		No		No		1	
Major incident response team that responds to major incidents	Yes		Yes		No		2	
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		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	Yes		Yes		Yes		3	
The central focal point is a Police, Fire or joint dispatch center	Yes		No		No		1	
The central focal point is another center	No		No		No		0	
Methods of Communication Used On-Site at an Incident								
Police		1						
Two-way radio	No		No		No		0	
800 MHz trunked radio	No		No		No		0	
Cellular telephone	No		No		No		0	
Hand-held (i.e., walkie-talkie)	No		No		No		0	

	Caltrans	District 12	Caltrans	District 7	Caltrans	District 8	Tot	tals
	1999	2005	1999	2005	1999	2005	1999	2005
Automated data systems (i.e., CAD)	No		No		No		0	
Fire								
Two-way radio	No		No		No		0	
800 MHz trunked radio	No		No		No		0	
Cellular telephone	No		No		No		0	
Hand-held (i.e., walkie-talkie)	No		No		No		0	
Automated data systems (i.e., CAD)	No		No		No		0	
DOT	140		140		140			
	No		Voc		Vaa		2	
Two-way radio	No		Yes		Yes			
800 MHz trunked radio	No		Yes		Yes		2	
Cellular telephone	No		Yes		Yes		2	
Hand-held (i.e., walkie-talkie)	No		No		Yes		1	
Automated data systems (i.e., CAD)	No		No		No		0	
<u>Towing</u>								
Two-way radio	No		No		No		0	
800 MHz trunked radio	No		No		No		0	
Cellular telephone	No		No		No		0	
Hand-held (i.e., walkie-talkie)	No		No		No		0	
Automated data systems (i.e., CAD)	No		No		No		0	
Which police agencies typically respond to incidents on freeways?								
State Police	Yes		Yes		Yes		3	
County Police or Sheriff	No		No		No		0	
City Police	No		No		No		0	
Who provides on-site emergency medical response?								
Fire	Yes		Yes		Yes		3	
Emergency Management Service Agency	No		No		No		0	
Private hospital	No		No		No		0	
Has a multi-agency contact list been developed in area containing the								
names, phone numbers, etc. for the appropriate response personnel?	Yes		Yes		No		2	
Is the Incident Command System used to manage incident scenes?	Yes		Yes		Yes		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?	Yes		No		Yes		2	
Formal agreement?	No		Yes		No		1	
Not specified or don't know?	No		No		No		0	
On-scene command post used to manage activities of responding agencies?	Yes		Yes		Yes		3	
Are there communication linkages to a communications traffic/freeway mgt center?	Yes		Yes		Yes		3	
Plan developed and adopted by responding agencies for staging and parking						ļ		
response vehicles and equip. at incident site that minimizes lane blockage								
and facilitates the re-opening of lanes?	Yes		No		No		1	
Respondents protected through law or court opinion for liability claims					_			
for damages to vehicles or cargoes during clearance activities?	Yes		Yes		No		2	

	Caltrans [District 12	Caltrans	District 7	Caltrans	District 8	To	tals
	1999	2005	1999	2005	1999	2005	1999	2005
Are overturned tank trucks, which are intact and not leaking, uprighted								
without first off-loading?	Yes		No		No		1	
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		Yes		Yes		2	
Have laws or policies regarding the removal of stalled/abandoned vehicles								
from freeway shoulders?	Yes		NR		Yes		2	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	0-24		DK		NR		0	
Have policies or procedures for quick removal of vehicles?	Yes		Yes		NR		2	
Is Total Station equipment used to investigate major incidents?	No		Yes		DK		1	
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	Yes		No		No		1	
Rotation with companies under contract?	Yes		Yes		Yes		3	
Separate lists kept for light and heavy response and for specialty recovery?	NR		Yes		Yes			
Rotation list with minimal qualifications?	No		No		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?	Considered		DK		DK		0	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

Appendix D Freeway Management Integration

	Caltrans	District 12	Cal	Caltrans District 7		
sgency Name	1999	2005	1999	2005		
gency Returned Survey?	Yes		Yes			
reeway Management Section						
gencies your agency provides freeway travel times, speeds, and						
conditions information, share infrastructure or coordinates operation						
Freeway Management Agencies						
Provide Information	Caltrans District 7,					
	Caltrans District 8	None listed	None listed	None listed		
Share Infrastructure	Caltrans District 7,					
Considerate Operation	Caltrans District 8 Caltrans District 7,	None listed	None listed	None listed		
Coordinate Operation	Caltrans District 7,	None listed	None listed	None listed		
Incident Management Agencies	Califaria District 6	INOTIE IISIEU	None listed	None listed		
Provide Information						
Trovide information						
	Caltrans District 7,					
	Caltrans District 8	None listed	None listed	None listed		
Share Infrastructure						
	Caltrans District 7,					
	Caltrans District 8	None listed	None listed	None listed		
Coordinate Operation						
	Caltrans District 7,					
	Caltrans District 8	None listed	None listed	None listed		
Arterial Management Agencies						
Provide Information	Anaheim City, Costa					
	Mesa City, Garden					
	Grove City, Huntington Beach City, Santa Ana					
	City	None listed	None listed	None listed		
Share Infrastructure	Anaheim City, Costa	TTOTIO HOLOG	140110 IIOCOG	740110 IIOLOG		
	Mesa City, Garden					
	Grove City, Huntington					
	Beach City, Santa Ana					
	City	None listed	None listed	None listed		
Coordinate Operation	Anaheim City, Costa					
	Mesa City, Garden					
	Grove City, Huntington					
	Beach City, Santa Ana					
Public Transit Operators	City	None listed	None listed	None listed		

	Caltrans	District 12	Caltrans District 7		
Agency Name	1999	2005	1999	2005	
Provide Information					
		Orange County			
	None listed	Transportation Authority		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					
Incident Management agencies from which your agency receives					
incident severity, location, and type information	Caltrans District 12,	Caltrans District 12,			
	Caltrans District 7,	Caltrans District 7,			
	Caltrans District 8	Caltrans District 8	None listed	None listed	
Arterial Management agencies from which your agency receives					
arterial travel times, speeds, and conditions		Anaheim City, Garden			
		Grove City, Huntington			
		Beach City, Santa Ana			
	None listed	City, Mission Viejo, Buena Park	None listed	None listed	
Public Transit angustava from which your agancy receives	None listed	Duella i aik	None listed	None listed	
Public Transit operators from which your agency receives freeway travel times derived from vehicle probes	None listed	None listed	None listed	None listed	
Toll Collection agencies from which your agency receives freeway travel	None listed	None listed	None listed	None listed	
times derived from vehicles probes					
umes derived from verificies probes	Caltrans, Transportation	Caltrans, Transportation			
	Corridor Agencies	Corridor Agencies	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	Anaheim City, Caltrans	Anaheim City, Caltrans			
	District 7, Caltrans	District 7, Caltrans			
	District 8, Costa Mesa	District 8, Costa Mesa			
	City, Garden Grove City,	City, Garden Grove City,	-	Caltrans District 12,	
	Huntington Beach City,	Huntington Beach City,	Caltrans District 8, Los	Caltrans District 8, Los	
	Santa Ana City	Santa Ana City	Angeles City	Angeles City	
Share Infrastructure			Caltrans District 12,	Caltrans District 12,	
	Nama lintad	Nama lintad	Caltrans District 8, Los	Caltrans District 8, Los	
Coordinate Operation	None listed	None listed	Angeles City	Angeles City	
Coordinate Operation			Caltrans District 12, Caltrans District 8, Los	Caltrans District 12, Caltrans District 8, Los	
	[l.,			
	None listed	None listed	Angeles City	Angeles City	

	Caltrans	District 12	Caltrans District 7		
Agency Name	1999	2005	1999	2005	
Provide Information					
	Anaheim City Fire				
		Anaheim City Fire			
		Department, Anaheim			
		Police Department,			
	Caltrans District 8, Costa				
	Mesa Police Department, Garden	Caltrans District 8, Costa Mesa Police			
	Grove City Fire & EMS	Department, Garden			
	Department, Garden	Grove City Fire & EMS			
	Grove City Police	Department, Garden			
	Department, Huntington	Grove City Police			
		Department, San			
		Bernardino County			
		Police Department,			
	Santa Ana City Fire	Santa Ana City Fire	Caltrans District 8,	Caltrans District 8,	
	Department	Department	Caltrans District 12	Caltrans District 12	
Share Infrastructure	·		Caltrans District 8,	Caltrans District 8,	
	None listed	None listed	Caltrans District 12	Caltrans District 12	
Coordinate Operation			Caltrans District 8,	Caltrans District 8,	
'	None listed	None listed	Caltrans District 12	Caltrans District 12	
Freeway Management Agencies					
Provide Information					
	Caltrans District 7,	Caltrans District 7,	Caltrans District 12,	Caltrans District 12,	
	Caltrans District 8	Caltrans District 8	Caltrans District 8	Caltrans District 8	
Share Infrastructure			Caltrans District 12,	Caltrans District 12,	
	None listed	None listed	Caltrans District 8	Caltrans District 8	
Coordinate Operation					
			Caltrans District 12,	Caltrans District 12.	
	None listed	None listed	Caltrans District 12,	Caltrans District 12,	
Public Transit Operators	INOTIE IISLEU	INOTIC IISICU	Califalia Diatrict 0	Califalis District 0	
Provide Information					
1 TO NO. INTO THE MILE OF THE PARTY OF THE P	Orange County	Orange County			
	Transportation Authority	Transportation Authority	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	INOTIC HISTORY	None listed	INOTIC IISICU	INOTIC HOLEU	
Emergency Management agencies from which your agency receives					
incident clearance and/or incident severity and type					

	Caltra	ns District 12	Caltrans District 7		
gency Name	1999	2005	1999	2005	
Receive Arterial Incident Clearance Information	Caltrans District 7, Caltrans District 8	Caltrans District 7, Caltrans District 8	Caltrans District 8, California Highway Patrol	Caltrans District 8, California Highway Patrol	
Receive Arterial Incident Severity Information	None listed	None listed	Caltrans District 8, California Highway Patrol	Caltrans District 8, California Highway Patrol	
Arterial Management agencies from which your agency receives					
arterial travel times, speeds, and conditions					
	Anaheim City	None listed	None listed	None listed	
Freeway Management agencies from which your agency receives					
freeway travel times, speeds, and conditions	Caltrans District 7, Caltrans District 8	Caltrans District 7, Caltrans District 8	Caltrans District 7	Caltrans District 7	

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

	Cali	trans District 8
Agency Name	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		
Freeway Management Agencies		
Provide Information		Caltrans District 12,
	None listed	Caltrans District 7
Share Infrastructure		Caltrans District 12,
Occading to Operation	None listed	Caltrans District 7
Coordinate Operation	None listed	Caltrans District 12, Caltrans District 7
Incident Management Agencies	None listed	Califains District 1
Provide Information		Oaltana Biatriat 40
1 Tovide Information		Caltrans District 12, Caltrans District 7,
		Caltrans District 8,
	None listed	Fontana City
Share Infrastructure		Caltrans District 12,
		Caltrans District 7,
		Caltrans District 8,
	None listed	Fontana City
Coordinate Operation		Caltrans District 12,
		Caltrans District 7,
	None listed	Caltrans District 8
Arterial Management Agencies		
Provide Information		
		Fontana City, Ontario
	None listed	City
Share Infrastructure		•
		Fontana City, Ontario
	None listed	City
Coordinate Operation		
		Fontana City, Ontario
	None listed	City
Public Transit Operators	None listed	Sity Sity

	Calt	trans District 8
Agency Name	1999	2005
Provide Information		
Share Infrastructure	None listed	None listed
	None listed	None listed
Coordinate Operation	None listed	None listed
Receiving real-time information via electronic means from others		
Incident Management agencies from which your agency receives		
incident severity, location, and type information		Calturana Diatriat 10
	None listed	Caltrans District 12, Caltrans District 7
Arterial Management agencies from which your agency receives	None listed	Oditi di 13 District 7
arterial travel times, speeds, and conditions		
arterial traver times, speeds, and conditions		
	None listed	None listed
Public Transit operators from which your agency receives		
freeway travel times derived from vehicle probes	None listed	None listed
Toll Collection agencies from which your agency receives freeway travel		
times derived from vehicles probes		
	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
Share Infrastructure	. tone notes	. totto ilotou
	None listed	None listed
Coordinate Operation		
	None listed	None listed
Emergency Management Agencies		

	Caltra	ans District 8
Agency Name	1999	2005
Provide Information		
	Caltrans District 7,	
	California Highway Patrol	Caltrans District 8
Share Infrastructure	California Highway	
Occasionate Occasion	Patrol	Caltrans District 8
Coordinate Operation	Caltrans District 8, Ca	lifo None listed
Freeway Management Agencies	·	
Provide Information	Caltrans District 12,	
	Caltrans District 7, California Highway	
	Patrol	None listed
Share Infrastructure	California Highway Patrol	Caltrans District 12, Caltrans District 7
Coordinate Operation	Caltrans District 12.	Caltrans District 7
	Caltrans District 7,	
	California Highway Patrol	Nama liatad
Public Transit Operators	ratioi	None listed
Provide Information		
	Niews P. C. J.	None that
Share Infrastructure	None listed None listed	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		

	Caltra	ans District 8
Agency Name	1999	2005
Receive Arterial Incident Clearance Information	Caltrans District 7, California Highway Patrol	None listed
Receive Arterial Incident Severity Information	Caltrans District 7, California Highway Patrol	None listed
Arterial Management agencies from which your agency receives		
arterial travel times, speeds, and conditions	None listed	Fontana City, Ontario City
Freeway Management agencies from which your agency receives		
freeway travel times, speeds, and conditions	None listed	Caltrans District 12, Caltrans District 7

^{*}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

	Caltrans	District 12	Caltr	Caltrans District 7			
Agency Name	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,						
	Ramp meter preemption's, Metering rate, Incidents,	,					
	Scheduled work zones,						
	Emergency/evacuation						
	routes and procedures	NR	NR	NR			
Archived by your agency							
,,							
	Traffic volumes, Traffic						
	speeds, Lane occupancy,						
	Ramp meter preemption's,						
	Metering rate, Incidents,						
	Scheduled work zones,						
	Emergency/evacuation	ND	ND	ND			
	routes and procedures	NR	NR	NR			

	Caltrans	District 12	Caltrans District 7			
Agency Name	1999	2005	1999	2005		
Transferred to another agency by your agency						
	Traffic volumes, Traffic					
	speeds, Lane occupancy,					
	Ramp meter preemption's,					
	Metering rate, Incidents,					
	Scheduled work zones,					
	Emergency/evacuation	ND	N.D.	ND		
Importance of making information available to the public	routes and procedures	NR	NR	NR		
Ranked High						
Ranked High						
	Traffic volumes, Traffic spe	ands I and occupancy				
	Incidents, Scheduled work					
	Emergency/evacuation rou		NR			
Ranked Medium						
	Ramp meter preemption's,	Metering rate	NR			
Ranked Low						
	NR		NR			
Groups that make requests for the data						
	Universities, Media (I.e., T					
	MPOs, Consultants, Advan	iced Traveler Information	NR			
What is the data used for?	Systems (ATIS) provi		INIX			
THINK IO SHO WALK MOOK IOI I						
	Traffic analysis, Construction	on impact determination.				
	Planning, Incident detection	n algorithm development,				
	Dissemination to the public		NR			
Methods used to disseminate freeway information to the public						

	Caltrans	District 12	Caltrans District 7		
Agency Name	1999	2005	1999	2005	
Technologies your agency uses to disseminate:		Dedicated cable TV,			
	Telephone system,	Telephone system,			
	Internet Web sites, Cell	Kiosks, In-vehicle			
	phone/voice, Facsimile	navigation systems	NR	NR	
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	
Internet web site reporting freeway conditions					
	www.dot.ca.gov		NR		
Telephone system for reporting freeway information to the public					
	1-800-427-ROAD		NR		
Organizations your agency sends information for dissemination to the public	CHP				
	Media		NR		
Freeway 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,			
	Telephone system,	Kiosks, In-vehicle			
	Internet Web sites, Cell	navigation systems, Cell	Dedicated cable TV,	Dedicated cable TV,	
	phone/data, Media	phone/data, Media	Kiosks	Internet Web sites, Kiosks	
Technologies your agency (through another agency or org.) uses to disseminate:	NR	NR	NR	NR	
Internet web site reporting incident information					
	www.dot.ca.gov		NR		
Telephone system for reporting incident information to the public	1-800-427-ROAD		NR		
Organizations your agency sends information for dissemination to the public					
	CHP		For this information please contact our Transportation		
	Media		Management Center at	213-897-0340.	

		Coltrono Diatriot 0
Aganay Nama		Caltrans District 8
Agency Name	1999	2005
Agency Returned Survey?	Yes	
Freeway Management Section	100	
Data collected, archived, and/or transferred to another agency		
Collected by your agency		
	NR	Traffic volumes, Traffic speeds, Lane occupancy, Lane occupancy, Ramp queues, Metering rate, Road conditions, Route designations (snow emergency, etc.), Weathe conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information
Archived by your agency		
	NR	Traffic volumes, Traffic speeds, Lane occupancy, Lane occupancy, Ramp queues, Metering rate, Road conditions, Route designations (snow emergency, etc.), Weathe conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation routes and procedures, Highway operations coordination information

	Ca	Caltrans District 8				
Agency Name	1999	2005				
Transferred to another agency by your agency						
		Traffic volumes, Traffic				
		speeds, Lane occupancy, Lane occupancy, Ramp				
		queues, Metering rate,				
		Road conditions, Route				
		designations (snow emergency, etc.), Weather				
		conditions, Incidents,				
		Current work zones,				
		Scheduled work zones, Emergency/evacuation				
		routes and procedures,				
		Highway operations				
In a substance of medicine information available to the mobile	NR	coordination information				
Importance of making information available to the public Ranked High						
ranked riigii						
	Traffic speeds Road	d conditions, Weather conditions,				
		ork zones, Scheduled work				
		vacuation routes and procedures, coordination information				
Ranked Medium	Tilgilway operations	coordination information				
	Traffic volumes I an	e occupancy, Route designations				
	(snow emergency, e					
Ranked Low						
		obe vehicles, Ramp queues,				
	(air, rail, water) conn	otion's, Metering rate, Intermodal ections				
Groups that make requests for the data						
	Universities, Media (Universities, Media (I.e., TV stations, radio stations)				
		Consultants, Advanced Traveler Information System: (ATIS) provi				
What is the data used for?						
		Traffic analysis, Construction impact determination,				
		Planning, incident detection algorithm development, Roadway impact analysis, Accident prediction				
	models, Disseminati					
Methods used to disseminate freeway information to the public						

	Caltr	rans District 8
Agency Name	1999	2005
Technologies your agency uses to disseminate:		
	Telephone system,	
	Facsimile	Internet Web sites
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	1-800-COMMUTE	
	1-800-427-7623	
Organizations your agency sends information for dissemination to the public	1-000-421-1020	
organization your agono, contactinion and another and passed	NR	
Freeway Incident Management Section		
Methods used to distribute incident location and severity information		
to the public		
Technologies your agency uses to disseminate:		
	Facsimile	NR
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

	Anahe	eim City	Caltrans	District 12	Costa N	lesa City	Garden Grove 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	48		NR		191		NR	
Number of arterial miles that is used for planning	48		NR		35		NR	
Number of highway-rail intersections that agency maintains	18		5		0		NR	
Number of highway-rail intersections that is used for planning	18		NR		0		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		Yes	
Activities conducted in a dedicated control room?	Yes		No		Yes		No	
Control room contains operator console(s)?	Yes		No		Yes		Yes	
Control room contains electronic wall map?	Yes		No		Yes		Yes	
Control room contains CCTV display(s)?	Yes		No		Yes		Yes	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		No		Yes		Yes	
Facilities are electronically linked to other transportation mgt facilities?	No		No		Yes		Yes	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	3		NR		12		NR	
Number of full time contractor staff members	NR		NR		0		NR	
Number of part-time agency staff members	3		NR		0		2	
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		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	Yes		No		No		No	
Types of operations conducted for arterial management								
Incident detection and management?	No		No		Yes		Yes	
This metropolitan area?	No		No		Yes		Yes	
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		Yes	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		Yes		Yes	

	Anahe	eim City	Caltrans	District 12	Costa I	Mesa City	Garden (Grove City
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control	area exce	incorporated pt state and routes	N	IR		incorporated ot state routes		
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	282	312	NR	NR	110	112	105	113
Number of signalized intersections operated by agency but owned by another	8	8	NR	NR	0	0	2	NR
Total number of signalized intersections operated by agency	290	320	470	500	110	112	107	113
Characteristics of signalized intersections that agency operates								
Under closed loop or central system control	250	160	470	500	110	112	105	113
Under real-time traffic adaptive control using advanced software	40	160	NR	NR	0	0	0	0
Using SCOOT	Yes		No		No		No	
Using SCATS	No		No		No		No	
		_				•		_
Name of software	0	NR o	N 57	IR 60	5	NR T 5	0	IR 0
Allow signal priority for transit vehicles	5	5	NR	NR	0	0	0	0
Allow signal priority for transit vehicles Within 200 feet of a highway-rail intersection	5	5	4	4	0	0	0	0
Within 200 feet of a highway-rail intersection that adjust signal timing	5	5	4	4	0	0	0	0
Software used to control the signals agency operates	3	3		7	· ·	+ -	0	0
Date of last upgrade to traffic signal control system software?	8/1	1999	N	IR	4	1/99	July	1999
Date of last upgrade to traffic signal control system software:			<u> </u>				54.5	
How often do you update signal timing?	as n	eeded	١	NR monthly		onthly	every two years	
Software used and number of signalized intersections under control (1999, 2005)		⁻ , 40, 160 250, 160	NR			ns, 21, 21 nics, 110, 112		: AIRES, 105, 13 NR, NR
Controllers used to control signals								
NEMA	245	120	0	0	110	112	105	113
170/179	0	0	0	0	21	21	0	0
2070 controller	45	200	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0

	Anahe	eim City	Caltrans	District 12	Costa N	lesa City	Garden (Grove City
	1999	2005	1999	2005	1999	2005	1999	2005
Technologies Associated with Highway-Rail Intersections								
Total number of highway-rail intersections under electronic surveillance	9	9	NR	5	NR	NR	10	57
Highway-Rail intersection capapbilities								
Video surveillance	0	0	0	0	0	0	5	45
Electronic surveillance other than video	9	9	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	5	12
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	65	160	NR	NR	5	48	120	128
Number of signalized intersections with data collection technologies								
Loop detectors	65	160	0	0	0	30	105	113
Video detection cameras	0	0	0	0	5	18	5	15
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								
Number deployed								
Highway Advisory Radio	1	1	NR	NR	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	NR	NR	NR	NR	NR	NR
VMS controlling parking access	15	50	NR	NR	NR	NR	NR	NR
Miles covered								
Highway Advisory Radio	15	35	74	74	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	0	5	NR	NR	NR	NR
Variable Message Signs (VMS) on Arterials								
Candidate locations for deployment of VMS where VMS has been deployed	15	50	NR	NR	3	3	4	4
Candidate locations for deployment of VMS	4	30	NR	5	0	0	4	10
Communication Technologies								
Signalized intersections communicated with by each type of communication								
Twisted pair cable	NR	NR	0	0	131	133	52	0
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	250	308	0	0	0	0	36	113
Other (e.g., wireless, dial-up modems, leased lines, etc.)	10	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)	Yes		No		No		No	
ATC Physical Cabinet Functional Design (ITE-9603-2)	Yes		No		No		Yes	
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)	Yes		No		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	Yes		No		No		Yes	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	Yes		No		No		No	

	Anah	eim City	Caltrans	District 12	Costa Mesa City		Garden Grove City	
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	Yes		NR		Yes		Yes	
Have agreements in place with other agencies to use similar hardware								
and software to aid maintenance and interoperability?	No		NR		No		Yes	
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	25	48	0	0	0	0	283	283
Computer algorithms linked to traffic surveillance equipment	0	0	NR	74	0	0	0	0
CCTV	13	25	NR	30	6	18	25	115
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?								<u> </u>
Working agreement(s)/arrangement(s) with other agencies	No		No		No		Yes	
Inter-agency incident management admin. team that meets regularly	No		No		No		Yes	
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		Yes	
Methods of Communication Used On-Site at an Incident								
Police								
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		Yes	
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		Yes	
Other	No		No		No		No	
DOT								
Two-way radio	No		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	

	Anahe	eim City	Caltrans	District 12	Costa M	lesa City	Garden Grove City	
	1999	2005	1999	2005	1999	2005	1999	2005
Hand-held (i.e., walkie-talkie)	No		No		No		No	
Automated data systems (i.e., CAD)	No		No		No		Yes	
Other	No		No		No		No	
Towing								
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		Yes	
Who provides on-site emergency medical response?								
Fire	No		No		No		Yes	
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		Yes	
Is the Incident Command System used to manage incident scenes?	NR		NR		NR		No	
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		Yes	
Not specified or don't know?	No		No		No		No	
On-scene command post used to manage activities of responding agencies?	NR		NR		NR		No	
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		Yes	
Respondents protected through law or court opinion for liability claims								
for damages to vehicles or cargoes during clearance activities?	NR		NR		NR		DK	
Are overturned tank trucks, which are intact and not leaking, uprighted								
without first off-loading?	NR		NR		NR		No	
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		Yes	
Have laws or policies regarding the removal of stalled/abandoned vehicles								
from freeway shoulders?	NR	_	NR		NR		Yes	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		NR		NR		0-24	
Have policies or procedures for quick removal of vehicles?	NR		NR		NR		Yes	
Is Total Station equipment used to investigate major incidents?	NR		NR		NR		NR	

	Anaheim City		Caltrans District 12		Costa Mesa City		Garden (Grove City
	1999	2005	1999	2005	1999	2005	1999	2005
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	No		No		No		No	
Rotation with companies under contract?	No		No		No		Yes	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		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		NR		NR		DK	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

	Glend	ale City	Huntington	Beach City	Inglew	ood City	Long Beach 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		183		25		142	
Number of arterial miles that is used for planning	NR		183		25		142	
Number of highway-rail intersections that agency maintains	8		NR		7		40	
Number of highway-rail intersections that is used for planning	8		NR		5		40	
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		Yes		Yes		Yes	
Activities conducted in a dedicated control room?	Yes		Yes		Yes		Yes	
Control room contains operator console(s)?	Yes		Yes		No		Yes	
Control room contains electronic wall map?	Yes		No		No		No	
Control room contains CCTV display(s)?	Yes		No		No		Yes	
Activities conducted in a room containing workstations or PCs that manage traffic?	No		No		Yes		Yes	
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		2		NR		2	
Number of full time contractor staff members	NR		NR		NR		NR	
Number of part-time agency staff members	NR		2		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		agency		NR		NR	
Staffed by others during off-peak hours	No		No		No		No	
Agency staff perform transportation management as an ancillary duty	Yes		No		No		Yes	
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		Yes		Yes		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		Yes		Yes		No	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	Yes		No		No		No	

	Glend	dale City	Huntington	Beach City	Inglewood City		Long Beach City	
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control		incorporated at state routes	All roads in incorporated area except state and county routes		All roads in incorporated area		All roads in incorporated area except state routes	
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	199	210	114	130	NR	NR	455	460
Number of signalized intersections operated by agency but owned by another	0	23	0	50	NR	NR	62	80
Total number of signalized intersections operated by agency	199	233	114	180	144	NR	517	540
Characteristics of signalized intersections that agency operates								
Under closed loop or central system control	168	233	95	180	110	110	384	400
Under real-time traffic adaptive control using advanced software	0	0	0	0	0	110	0	20
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
						-		
Name of software		NR		<u>IR</u>		<u>IR</u>		R
Allow signal preemption for emergency vehicles	2	19	94	130	0	NR	80	100
Allow signal priority for transit vehicles	0	17	0	0	0	NR	0	15
Within 200 feet of a highway-rail intersection	9	9	0	0	10	NR	34	34
Within 200 feet of a highway-rail intersection that adjust signal timing	9	9	0	0	10	NR	3	3
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	2	2/99	19	999	June	1994	1999	
How often do you update signal timing?		nuous and as ed basis	4 years		3 years		Annually	
Software used and number of signalized intersections under control (1999, 2005)	Caltrans C4 Caltrans C8 BiTran Quic	LACO, 6, NR or Q5, 30, NR Version 3, 18, 18 net 4, 168, 215 0, NR, NR	BiTrans 233/Quicnet-2, 95, 180		BiTran Syst	em, 111, NR	BiTran Quicn	et 4, 400, 500
Controllers used to control signals								
NEMA	0	0	0	0	0	0	0	0
170/179	199	233	114	130	144	NR	517	497
2070 controller	0	0	0	0	0	0	NR	20
Other	0	0	0	0	0	0	0	0

	Glend	lale City	Huntington	Beach City	Inglew	ood City	Long Beach City	
	1999	2005	1999	2005	1999	2005	1999	2005
Technologies Associated with Highway-Rail Intersections								
Total number of highway-rail intersections under electronic surveillance	1	0	10	60	10	10	32	42
Highway-Rail intersection capapbilities								
Video surveillance	0	0	0	10	0	10	4	10
Electronic surveillance other than video	0	0	0	0	10	NR	0	0
Ability to predict train arrival electronically	0	0	0	0	0	0	0	0
Equipped with electronic traffic violator devices	1	0	0	0	0	0	0	10
Other	0	0	10	50	0	0	0	0
Real-Time Electronic Traffic Data Collection Technologies								
Total number of signalized intersections covered by electronic surveillance	169	233	114	130	0	10	7	70
Number of signalized intersections with data collection technologies								
Loop detectors	168	228	104	80	0	0	0	40
Video detection cameras	1	5	10	50	0	0	7	20
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	10
Other	0	0	0	0	0	10	0	0
Roadside Technologies used to Distribute Traveler Information								
Number deployed								
Highway Advisory Radio	NR	NR	0	130	NR	NR	NR	NR
In-Vehicle Signing (IVS)	NR	NR	0	100	NR	NR	NR	NR
VMS controlling parking access	0	10	0	5	NR	NR	0	10
Miles covered								
Highway Advisory Radio	NR	NR	0	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	0	5	NR	NR	0	10
Candidate locations for deployment of VMS	NR	NR	0	5	NR	NR	NR	10
Communication Technologies								
Signalized intersections communicated with by each type of communication								
Twisted pair cable	168	183	39	39	111	NR	150	200
Coaxial cable	0	0	0	0	0	0	0	0
Fiber-optic cable	0	50	0	60	0	0	0	40
Other (e.g., wireless, dial-up modems, leased lines, etc.)	0	0	102	114	0	0	250	200
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		Yes		No		No	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		Yes		No		No	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		Yes		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		Yes	

	Glend	lale City	Huntington	Beach City	Inglew	ood City	Long Be	each City
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	No		Yes		No		No	
Have agreements in place with other agencies to use similar hardware								
and software to aid maintenance and interoperability?	Yes		No		No		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		Yes		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	25	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	NR	3	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	1	NR	NR	15	0	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	25	25	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		Yes		Yes	
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								
Police								
Two-way radio	No		Yes		Yes		Yes	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		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	
Fire								
Two-way radio	No		Yes		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		No	
DOT								
Two-way radio	No		No		No		Yes	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	No		No		No		No	

	Glend	ale City	Huntington	Beach City	Inglew	ood City	Long Be	each City
	1999	2005	1999	2005	1999	2005	1999	2005
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	
Towing								
Two-way radio	No		Yes	N/A	No		Yes	
800 MHz trunked radio	No		No	N/A	No		No	
Cellular telephone	No		No	14// (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?	110		110		110		110	
State Police	No		No		No		No	
County Police or Sheriff	No		No		No		No	
City Police	Yes		Yes		Yes		Yes	
Who provides on-site emergency medical response?								
Fire	Yes		Yes		Yes		Yes	
Emergency Management Service Agency	No		No		No		No	
Private hospital	No		Yes		No		No	
Has a multi-agency contact list been developed in area containing the								
names, phone numbers, etc. for the appropriate response personnel?	No		DK		Yes		No	
Is the Incident Command System used to manage incident scenes?	No		No		Yes		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		Yes		No	
Not specified or don't know?	Yes		Yes		No		Yes	
On-scene command post used to manage activities of responding agencies?	No		No		Yes		Yes	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		Yes		No	
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		Yes		No	
Respondents protected through law or court opinion for liability claims								
for damages to vehicles or cargoes during clearance activities?	No		DK		DK		DK	
Are overturned tank trucks, which are intact and not leaking, uprighted								
without first off-loading?	Yes		No		No		NR	
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?	Yes		No		Yes		NR	
Have laws or policies regarding the removal of stalled/abandoned vehicles								
from freeway shoulders?	No		Yes		NR		NR	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	DK		25-36		DK		NR	
Have policies or procedures for quick removal of vehicles?	No		No		NR		No	
Is Total Station equipment used to investigate major incidents?	No		No		Yes		NR	

	Glendale City Hu		Huntingtor	Beach City	Inglewo	ood City	Long Be	each City
	1999	2005	1999	2005	1999	2005	1999	2005
Handling of Towing Responses to Incidents								
Formal contract based on qualifications?	Yes		Yes		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		Yes		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

	Los Ang	geles City	Pasado	ena City	Pomo	na City	Rivers	ide 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	1,400		NR		60		110	
Number of arterial miles that is used for planning	NR		NR		60		NR	
Number of highway-rail intersections that agency maintains	NR		5		17		30	
Number of highway-rail intersections that is used for planning	NR		NR		17		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		Yes	
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)?	Yes		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?	No		No		No		No	
Staffing and hours of operation of arterial management activities								
Number of full-time agency staff members	NR		NR		NR		2	
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		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	Yes		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		Yes		Yes	
Radio communications with other agencies?	No		No		No		No	
Exchange of electronic data with other agencies such as computer aided dispatch?	Yes		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	

	Los Ang	geles City	Pasade	ena City	Pomo	na City	Riversi	de City
	1999	2005	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control		incorporated rea	N	IR	area exce	incorporated pt state and y routes		incorporated state routes
Traffic Signals Operated by Agency								
Number of signalized intersections operated and owned by agency	NR	NR	NR	NR	149	170	283	295
Number of signalized intersections operated by agency but owned by another	NR	NR	NR	NR	1	2	NR	NR
Total number of signalized intersections operated by agency	4,295	4,415	290	300	148	168	283	295
Characteristics of signalized intersections that agency operates								
Under closed loop or central system control	2,449	3,577	290	300	64	120	85	100
Under real-time traffic adaptive control using advanced software	222	800	0	0	0	10	0	NR
Using SCOOT	No		No		No		No	
Using SCATS	No		No		No		No	
Name of software		aptive Control nouse software		IR		NR	N	IR
Allow signal preemption for emergency vehicles	15	NR	4	10	0	0	75	NR
Allow signal priority for transit vehicles	70	500	0	6	0	16	0	NR
Within 200 feet of a highway-rail intersection	NR	NR	6	6	6	6	10	NR
Within 200 feet of a highway-rail intersection that adjust signal timing	NR	NR	6	6	6	6	10	NR
Software used to control the signals agency operates								
Date of last upgrade to traffic signal control system software?	1:	999	١	İR	1993		1993 1998	
How often do you update signal timing?	as ne	cessary	Ν	IR 1999 about 6		every 2 years	once	a year
Software used and number of signalized intersections under control (1999, 2005)	UTCS/AT	CS, NR, NR	NR		BiTrans	, 149, 170	BiTrans Quic	Net 4, 85, NR
Controllers used to control signals								
NEMA	0	0	0	0	0	0	180	NR
170/179	4,265	4,365	0	0	149	170	103	NR
2070 controller	35	500	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0

	Los Ang	geles City	Pasad	ena City	Pomo	na City	Rivers	ide City
	1999	2005	1999	2005	1999	2005	1999	2005
Technologies Associated with Highway-Rail Intersections								
Total number of highway-rail intersections under electronic surveillance	NR	NR	1	5	NR	NR	NR	NR
Highway-Rail intersection capapbilities								
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
Number of signalized intersections with data collection technologies								
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								
Number deployed								
Highway Advisory Radio	1	1	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
Miles covered								
Highway Advisory Radio	NR	NR	7	7	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	13	15	NR	NR	NR	NR
Candidate locations for deployment of VMS	17	20	13	15	NR	NR	NR	NR
Communication Technologies								
Signalized intersections communicated with by each type of communication								
Twisted pair cable	2,449	3,577	0	0	64	120	69	NR
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	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)	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)	Yes		No		No		No	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		No		No	

	Los An	geles City	Pasad	ena City	Pomo	na City	Rivers	ide City
	1999	2005	1999	2005	1999	2005	1999	2005
Would agency be willing to participate in testing of ITS Standards?	Yes		NR		Yes		Yes	
Have agreements in place with other agencies to use similar hardware								
and software to aid maintenance and interoperability?	No		NR		No		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	NR	NR	12	25	0	0	0	0
CCTV	NR	NR	12	25	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	Yes		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								
Police								
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	
Fire								
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	
DOT	1		1					
Two-way radio	Yes		No		No		No	
800 MHz trunked radio	No		No		No		No	
Cellular telephone	Yes		No		No		No	

	Los Ang	geles City	Pasad	ena City	Pomo	na City	Rivers	ide City
	1999	2005	1999	2005	1999	2005	1999	2005
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	
Towing								
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?	Yes		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?	Yes		NR		NR		NR	
Are there communication linkages to a communications traffic/freeway mgt center?	Yes		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?	DK		NR		NR		NR	
Are overturned tank trucks, which are intact and not leaking, uprighted								
without first off-loading?	No		NR		NR		NR	
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?	Yes		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?	Yes		NR		NR		NR	
Is Total Station equipment used to investigate major incidents?	No		No		NR		NR	

	Los Angeles City		Pasade	Pasadena City		na City	Rivers	ide City
	1999	2005	1999	2005	1999	2005	1999	2005
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?	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?	Yes		NR		NR		NR	
DK: Don't know								
NR: No Response								
Leg: Legislation or action being planned								

	San Berna	ardino City	Santa A	Ana City	Tot	als
	1999	2005	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes		14	
ARTERIAL MANAGEMENT SECTION						
Number of arterial miles that agency owns or maintains	115		NR		2,274	
Number of arterial miles that is used for planning	75		NR		568	
Number of highway-rail intersections that agency maintains	0		NR		130	
Number of highway-rail intersections that is used for planning	0		NR		88	
Type of facilities used to conduct arterial management activities						
Activities housed in a free-standing dedicated building?	No		No		0	
Activities housed in a building shared with other activities?	No		No		5	
Activities conducted in a dedicated control room?	No		No		7	
Control room contains operator console(s)?	No		No		7	
Control room contains electronic wall map?	No		No		5	
Control room contains CCTV display(s)?	No		No		6	
Activities conducted in a room containing workstations or PCs that manage traffic?	Yes		No		8	
Facilities are electronically linked to other transportation mgt facilities?	No		No		3	
Staffing and hours of operation of arterial management activities						
Number of full-time agency staff members	1		NR		0	
Number of full time contractor staff members	0		NR		0	
Number of part-time agency staff members	0		NR		0	
Number of part-time contractor staff members	0		NR		0	
Staffed 24 hours day by agency staff or by others	NR		NR		0	
Staffed during peak hours only by agency staff or by others	agency		NR		0	
Staffed by others during off-peak hours	No		No		0	
Agency staff perform transportation management as an ancillary duty	No		No		4	
Agency staff dedicated to transportation management duty	No		No		2	
Types of operations conducted for arterial management						
Incident detection and management?	No		No		4	
This metropolitan area?	No		No		4	
Other metropolitan area?	No		No		0	
Monitoring and troubleshooting status of system components?	Yes		No		9	
Radio communications with other agencies?	No		No		0	
Exchange of electronic data with other agencies such as computer aided dispatch?	No		No		2	
Manual override of traffic signal timing plans	Yes		No		7	
Operating transportation mgt roadside devices (e.g., VMS, CCTV, etc.)	No		No		4	

	San Bern	ardino City	Santa	Ana City	Tot	als
	1999	2005	1999	2005	1999	2005
Describe agency's role in traffic signal control		incorporated t state routes	N	IR		
Traffic Signals Operated by Agency						
Number of signalized intersections operated and owned by agency	225	240	NR	NR	1,922	2,042
Number of signalized intersections operated by agency but owned by another	20	25	NR	NR	93	188
Total number of signalized intersections operated by agency	245	265	253	260	7,465	7,701
Characteristics of signalized intersections that agency operates						
Under closed loop or central system control	142	160	253	260	4,975	6,325
Under real-time traffic adaptive control using advanced software	0	0	0	0	262	1,100
Using SCOOT	No		No		1	•
Using SCATS	No		No		0	
Name of software		IR		IR		
Allow signal preemption for emergency vehicles	0	5	6	100	338	429
Allow signal priority for transit vehicles	0	0	0	0	75	559
Within 200 feet of a highway-rail intersection	5	5	2	2	91	71
Within 200 feet of a highway-rail intersection that adjust signal timing	3	3	2	2	58	38
Software used to control the signals agency operates						
Date of last upgrade to traffic signal control system software?	19	994	١	IR		
How often do you update signal timing?	sel	dom	N	IR		
Software used and number of signalized intersections under control (1999, 2005)		iickNet, 150, 70	Ν	NR		
Controllers used to control signals						
NEMA	0	0	0	0	640	345
170/179	345	265	0	0	5,857	5,681
2070 controller	0	10	0	0	80	730
Other	0	0	0	0	0	0

	San Bern	ardino City	Santa A	Ana City	To	tals
	1999	2005	1999	2005	1999	2005
Technologies Associated with Highway-Rail Intersections						
Total number of highway-rail intersections under electronic surveillance	NR	NR	NR	NR	73	188
Highway-Rail intersection capapbilities						
Video surveillance	0	0	0	0	9	75
Electronic surveillance other than video	0	0	0	0	19	9
Ability to predict train arrival electronically	0	0	0	0	0	0
Equipped with electronic traffic violator devices	0	0	0	0	6	22
Other	0	0	0	0	10	50
Real-Time Electronic Traffic Data Collection Technologies						
Total number of signalized intersections covered by electronic surveillance	12	30	NR	NR	492	809
Number of signalized intersections with data collection technologies						
Loop detectors	4	10	0	0	446	661
Video detection cameras	8	20	0	0	36	128
Probe readers reading toll tags	0	0	0	0	0	0
Probe readers reading license plates	0	0	0	0	0	10
Other	0	0	0	0	0	10
Roadside Technologies used to Distribute Traveler Information						
Number deployed						
Highway Advisory Radio	NR	NR	NR	NR	2	132
In-Vehicle Signing (IVS)	NR	NR	NR	NR	0	100
VMS controlling parking access	NR	NR	NR	NR	15	75
Miles covered						
Highway Advisory Radio	NR	NR	30	30	126	146
In-Vehicle Signing (IVS)	NR	NR	0	0	0	5
Variable Message Signs (VMS) on Arterials						
Candidate locations for deployment of VMS where VMS has been deployed	NR	NR	13	13	48	100
Candidate locations for deployment of VMS	NR	NR	13	13	51	108
Communication Technologies						
Signalized intersections communicated with by each type of communication						
Twisted pair cable	130	135	0	0	3,363	4,387
Coaxial cable	0	0	0	0	0	0
Fiber-optic cable	0	0	0	0	286	571
Other (e.g., wireless, dial-up modems, leased lines, etc.)	31	50	0	0	409	364
Does agency convey information on highway-rail intersection crossing						
status to travelers via roadside media such as VMS or HAR?	No		No		0	
ITS Standards Used Related to Traffic Signal Control						
Advanced Transportation Controller (ATC) Software Application Interface (ITE 9603-1)	No		No		2	
ATC Physical Cabinet Functional Design (ITE-9603-2)	No		No		2	
ATC Functionality and Interface Definitions (ITE-9603-3)	No		No		2	
Natl. Trans. Communications for ITS Protocol (NTCIP) Class B Profile (AASHTO TS 3.3)	No		No		3	
NTCIP Data Collection and Monitoring Devices (AASHTO TS 3.DCM)	No		No		2	
NTCIP Object Definitions for Video Camera Control (AASHTO TS 3.VCC)	No		No		4	
NTCIP Object Definitions for Actuated Traffic Signal Controller Units (AASHTO TS 3.5)	No		No		2	

	San Bern	ardino City	Santa A	Santa Ana City		Totals	
	1999	2005	1999	2005	1999	2005	
Nould agency be willing to participate in testing of ITS Standards?	Yes		NR		8		
Have agreements in place with other agencies to use similar hardware							
and software to aid maintenance and interoperability?	No		NR		2		
NCIDENT MANAGEMENT ON ARTERIAL STREETS							
Receive information on highway-rail intersection crossing blockages for							
the purpose of managing incident response?	No		No		0		
Jse of Service Patrols to Assist in Detection and Response to Incidents							
Publicly operated service patrol vehicles	No		No		2		
Privately operated service patrol vehicles operated under public contract	No		No		0		
Total number of arterial miles patrolled by these services	NR	NR	NR	NR	25	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	3	
Free cellular phone call to an area radio station	0	0	0	0	0	0	
Police patrols	0	0	0	0	308	331	
Computer algorithms linked to traffic surveillance equipment	0	0	0	0	12	99	
CCTV	0	0	38	70	95	308	
Private sector sources (e.g., Shadow Traffic, Smart Routes)	0	0	0	0	0	0	
Other	0	0	0	0	25	25	
Procedures in place for Arterial Incident Response?							
Working agreement(s)/arrangement(s) with other agencies	No		No		1		
Inter-agency incident management admin. team that meets regularly	No		No		1		
Major incident response team that responds to major incidents	No		No		3		
Set of goals/objectives for incident mgt that has been adopted by agencies in region	No		No		1		
Methods of Communication Used On-Site at an Incident					0		
Police							
Two-way radio	No		No		3		
800 MHz trunked radio	No		No		0		
Cellular telephone	No		No		0		
Hand-held (i.e., walkie-talkie)	No		No		1		
Automated data systems (i.e., CAD)	No		No		1		
Other	No		No		0		
Fire							
Two-way radio	No		No		2		
800 MHz trunked radio	No		No		0		
Cellular telephone	No		No		0		
Hand-held (i.e., walkie-talkie)	No		No		0		
Automated data systems (i.e., CAD)	No		No		1		
Other	No		No		0		
DOT							
Two-way radio	No		No		2		
,	No		No		0		
800 MHz trunked radio							

	San Bern	ardino City	Santa /	Ana City	Totals	
	1999	2005	1999	2005	1999	2005
Hand-held (i.e., walkie-talkie)	No		No		0	
Automated data systems (i.e., CAD)	No		No		1	
Other	No		No		0	
Towing						
Two-way radio	No		No		2	
800 MHz trunked radio	No		No		0	
Cellular telephone	No		No		0	
Hand-held (i.e., walkie-talkie)	No		No		0	
Automated data systems (i.e., CAD)	No		No		0	
Other	No		No		0	
Which police agencies typically respond to incidents on arterials?						
State Police	No		No		0	
County Police or Sheriff	No		No		0	
City Police	No		No		6	
Who provides on-site emergency medical response?						
Fire	No		No		6	
Emergency Management Service Agency	No		No		0	
Private hospital	No		No		1	
las a multi-agency contact list been developed in area containing the						
names, phone numbers, etc. for the appropriate response personnel?	NR		NR		3	
s the Incident Command System used to manage incident scenes?	NR		NR		3	
s 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		0	
Formal agreement?	No		No		2	
Not specified or don't know?	No		No		4	
On-scene command post used to manage activities of responding agencies?	NR		NR		3	
Are there communication linkages to a communications traffic/freeway mgt center?	NR		NR		2	
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		2	
Respondents protected through law or court opinion for liability claims						
for damages to vehicles or cargoes during clearance activities?	NR		NR		0	
Are overturned tank trucks, which are intact and not leaking, uprighted						
without first off-loading?	NR		NR		1	
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		4	
Have laws or policies regarding the removal of stalled/abandoned vehicles						
from freeway shoulders?	NR		NR		3	
Hours abandoned vehicles are allowed to remain on a freeway shoulder?	NR		NR		0	
Have policies or procedures for quick removal of vehicles?	NR		NR		2	
s Total Station equipment used to investigate major incidents?	NR		NR		1	

	San Bern	ardino City	Santa A	Ana City	Tot	als
	1999	2005	1999	2005	1999	2005
Handling of Towing Responses to Incidents						
Formal contract based on qualifications?	No		No		3	
Rotation with companies under contract?	No		No		1	
Separate lists kept for light and heavy response and for specialty recovery?	NR		NR		1	
Rotation list with minimal qualifications?	No		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		NR		2	
DK: Don't know						
NR: No Response						
Leg: Legislation or action being planned						

Appendix G Arterial Management Integration

gency Name gency Returned Survey? rterial Management Section rterial Mgt. agencies in metropolitan area with which you share info. Share Timing Plans Information Coordinate Changes to Timing Plans Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12, Garden Grove City Caltrans District 12, Garden Grove City	Garden Grove City Caltrans District 12, Garden Grove City	Yes short survey	None listed
rterial Management Section rterial Mgt. agencies in metropolitan area with which you share info. Share Timing Plans Information Coordinate Changes to Timing Plans Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12, Garden Grove City Caltrans District 12,	Caltrans District 12, Garden Grove City	short survey	None listed
Share Timing Plans Information Coordinate Changes to Timing Plans Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12,	Caltrans District 12, Garden Grove City		None listed
Coordinate Changes to Timing Plans Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12,	Caltrans District 12, Garden Grove City		None listed
Coordinate Changes to Timing Plans Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12,	Caltrans District 12, Garden Grove City		None listed
Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12,	Caltrans District 12, Garden Grove City		None listed
Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12,	Caltrans District 12, Garden Grove City		None listed
Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12, Garden Grove City Caltrans District 12,	Caltrans District 12, Garden Grove City		
Turn over Control of Signals gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Garden Grove City Caltrans District 12,	Grove City	short survey	
gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Garden Grove City Caltrans District 12,	Grove City	short survey	
gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Garden Grove City Caltrans District 12,	Grove City	short survey	ı
gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation	Caltrans District 12,			None listed
gencies your agency provides arterial travel times, speeds, and conditions information, share infrastructure or coordinates operation			onort ourvey	None listed
conditions information, share infrastructure or coordinates operation	Garden Grove City	Caltrans District 12, Garden		
conditions information, share infrastructure or coordinates operation		Grove City	short survey	None listed
Francisco Management Associate				
Freeway Management Agencies				
Provide Information	0.11	Oaltrana Diatriat 40		
Oh and Infra deviations	Caltrans District 12	Caltrans District 12	short survey	None listed
Share Infrastructure	Caltrans District 12	Caltrans District 12	None listed	None listed
Coordinate Operation	Caltrans District 12	Caltrans District 12	None listed	None listed
Incident Management Agencies				
Provide Information				
	Caltrans District 12	Caltrans District 12, OCTA	short survey	None listed
Share Infrastructure				
	Caltrans District 12	Caltrans District 12	None listed	None listed
Coordinate Operation			Trono notod	Trono notod
	Caltrans District 12	Caltrans District 12	None listed	None listed
Public Transit Operators Agencies				
Provide Information				
		Oranga Caunty		
	None listed	Orange County		i

	Anal	neim City	Caltra	ans District 12
Agency Name	1999	2005	1999	2005
Share Infrastructure				
	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Autorial Management Assessing	None listed	None listed	None listed	None listed
Arterial Management Agencies Provide Information				
Provide information				
	Caltrans District 12	Caltrans District 12	None listed	None listed
Share Infrastructure				
	Caltrans District 12	Caltrans District 12	None listed	None listed
Coordinate Operation				
	Caltrans District 12	Caltrans District 12	None listed	None listed
Receiving real-time information via electronic means from others	Oditiano Bistriot 12	California Biothot 12	Trone noted	Trone noted
Freeway Management agencies from which your agency receives				
	Caltrans District 12,	Caltrans District 12,		
freeway travel times, speeds, and conditions	Caltrans District 7	Caltrans District 7	short survey	None listed
Public Transit operators from which your agency receives				
	Orange County	Orange County		<u>.</u>
arterial travel times derived from vehicle probes	Transportation Authority	Transportation Authority	None listed	None listed
Incident Management agencies from which your agency receives				
incident clearance and/or incident severity, location, and type information				
Receive information on Incident Clearance	Caltrans District 12	Caltrans District 12	None listed	None listed

	Ana	heim City	Caltra	ns District 12
Agency Name	1999	2005	1999	2005
Receive information on Incident Severity, Location, and Type	Caltrans District 12	Caltrans District 12	None listed	None listed
Toll Collection agencies from which your agency receives arterial travel				
times derived from vehicles probes	None listed	None listed	None listed	None listed
Arterial Incident Management Section	Trone noted	Trone noted	TTORIC HOLCO	TTOTIC HOLCG
Agencies your agency provides incident severity, location, and type info.				
and/or shares infrastructure and/or coordinates operation				
Emergency Management Agencies				
Provide Information				
	None listed	None listed	None listed	None listed
Share Infrastructure				
	None listed	Nana listed	None listed	Nana liated
Coordinate Operation	None listed	None listed	None listed	None listed
Coordinate Operation				
	None listed	None listed	None listed	None listed
Freeway 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	None listed	None listed
Share Infrastructure				
	Niana Batad	Niana Batad	Name Bat 1	Niama Bata I
Coordinate Operation	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				Trono notou
Emergency Management agencies from which your agency receives				
arterial incident clearance and/or arterial incident severity				

	Anah	Anaheim City		District 12
Agency Name	1999	2005	1999	2005
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	short survey	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.

	Costa Mesa City		
Agency Name	1999	2005	
Agency Returned Survey?	Yes		
Arterial Management Section			
Arterial Mgt. agencies in metropolitan area with which you share info.			
Share Timing Plans Information			
	Caltrans District 12, Costa		
	Mesa City, Santa Ana City	OCTA	
Coordinate Changes to Timing Plans			
	Caltrans District 12, Costa	Huntington Beach City,	
	Mesa City, Santa Ana City	OCTA	
Turn over Control of Signals			
	None listed	None listed	
Agencies your agency provides arterial travel times, speeds, and	None listed	None listed	
conditions information, share infrastructure or coordinates operation			
Freeway Management Agencies			
Provide Information			
Provide information	Caltrans District 12	OCTA, Santa Ana City	
Share Infrastructure	0.11. 5: 1: 1.40	0.074 0 4 4 0"	
Occarding to Occarding	Caltrans District 12	OCTA, Santa Ana City	
Coordinate Operation	Caltrans District 12	OCTA, Santa Ana City	
Incident Management Agencies			
Provide Information			
	Caltrans District 12	OCTA	
Share Infrastructure	Califalis District 12	OCIA	
Share illiastructure			
	None listed	Caltrans District 12, OCTA	
Coordinate Operation			
	None listed	Caltrans District 12, OCTA	
Public Transit Operators Agencies			
Provide Information			
	Niero Bata I	Name Betarl	
	None listed	None listed	

	Costa Mesa City		
Agency Name	1999	2005	
Share Infrastructure			
	None listed	None listed	
Coordinate Operation	None listed	None listed	
Arterial Management Agencies	None listed	None listed	
Provide Information			
Toride information			
	Caltrans District 12, Costa	Huntington Beach City,	
	Mesa City, Santa Ana City	OCTA	
Share Infrastructure			
	Caltrans District 12, Costa	Huntington Beach City,	
	Mesa City, Santa Ana City	OCTA	
Coordinate Operation			
	Caltrans District 12, Costa	Huntington Beach City,	
	Mesa City, Santa Ana City	OCTA	
Receiving real-time information via electronic means from others			
Freeway Management agencies from which your agency receives			
freeway travel times, speeds, and conditions	None listed	Caltrans District 12	
Public Transit operators from which your agency receives	TYOTIC HISTORY	Californio Biotriot 12	
,			
arterial travel times derived from vehicle probes	None listed	None listed	
Incident Management agencies from which your agency receives			
incident clearance and/or incident severity, location, and type information			
Receive information on Incident Clearance	None listed	Caltrans District 12, OCT	

	Co	sta Mesa City
Agency Name	1999	2005
Receive information on Incident Severity, Location, and Type	None listed	Caltrans District 12, OCTA
Toll Collection agencies from which your agency receives arterial travel	Trong neted	
times derived from vehicles probes	None listed	None listed
Arterial Incident Management Section		
Agencies your agency provides incident severity, location, and type info.		
and/or shares infrastructure and/or coordinates operation		
Emergency Management Agencies		
Provide Information		
		Huntington Beach City,
		Santa Ana City Fire
	Costa Mesa Police	Department, Santa Ana Ci
	Department	Police Department
Share Infrastructure		Huntington Beach City,
		Santa Ana City Fire
	Costa Mesa Police	Department, Santa Ana Ci
	Department	Police Department
Coordinate Operation		Huntington Beach City,
	Costa Mesa Police	Santa Ana City Fire Department, Santa Ana Ci
	Department	Police Department
Freeway Management Agencies	Bepartment	r ence Department
Provide Information	None listed	Caltrans District 12, OCTA
Share Infrastructure		
Coordinate Operation	None listed	Caltrans District 12, OCTA
	None listed	Caltrans District 12, OCTA
Public Transit Operators		
Provide Information		
	None listed	None listed
Share Infrastructure	None listed	Notice listed
Grane minastructure		
	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		
arterial incident clearance and/or arterial incident severity		

	Co	sta Mesa City
Agency Name	1999	2005
Receive Arterial Incident Clearance Information	Costa Mesa Police Department	Huntington Beach City, Santa Ana City Fire Department, Santa Ana City Police Department, OCTA
Receive Arterial Incident Severity Information	Costa Mesa Police Department	Huntington Beach City, Santa Ana City Fire Department, Santa Ana City Police Department, OCTA
Arterial Management agencies from which your agency receives		
arterial travel times, speeds, and conditions	Costa Mesa City	Caltrans District 12, Huntington Beach City, Santa Ana City
Freeway Management agencies from which your agency receives		
freeway travel times, speeds, and conditions	Caltrans District 12	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.

	Garden Grove City		
Agency Name	1999	2005	
Agency Returned Survey?	Yes		
Arterial Management Section			
Arterial Mgt. agencies in metropolitan area with which you share info.			
Share Timing Plans Information	Anaheim City, Caltrans District 12, Garden Grove City	Garden Grove City	
Coordinate Changes to Timing Plans			
	Anaheim City, Caltrans District 12, Garden Grove City	Anaheim City, Caltrans District 12, Garden Grove City	
Turn over Control of Signals			
	Garden Grove City	Caltrans District 12, Garden Grove City	
Agencies your agency provides arterial travel times, speeds, and			
conditions information, share infrastructure or coordinates operation			
Freeway Management Agencies			
Provide Information	Caltrans District 12	Caltrans District 12	
Share Infrastructure	Caltrans District 12	Caltrans District 12	
Coordinate Operation	Caltrans District 12	Caltrans District 12	
Incident Management Agencies			
Provide Information			
	Caltrans District 12	Caltrans District 12	
Share Infrastructure			
	Caltrans District 12	Caltrans District 12	
Coordinate Operation			
	Caltrans District 12	Caltrans District 12	
Public Transit Operators Agencies			
Provide Information			
	Orange County Transportation Authority	Orange County Transportation Authority	

	Garden	Grove City
Agency Name	1999	2005
Share Infrastructure		
	Orange County	Orange County
	Transportation Authority	Transportation Authority
Coordinate Operation		
	None listed	None listed
Arterial Management Agencies		
Provide Information		
	Caltrans District 12, Santa	Caltrans District 12, Santa
	Ana City	Ana City
Share Infrastructure		
	Caltrans District 12, Santa	Caltrans District 12, Santa
	Ana City	Ana City
Coordinate Operation		
	Caltrans District 12, Santa	Caltrans District 12, Santa
Receiving real-time information via electronic means from others	Ana City	Ana City
Freeway Management agencies from which your agency receives		
Treeway management agenties from which your agency receives		
	Caltrans District 12, Santa	Caltrans District 12, Santa
freeway travel times, speeds, and conditions	Ana City	Ana City
Public Transit operators from which your agency receives	,	,
arterial travel times derived from vehicle probes	None listed	None listed
Incident Management agencies from which your agency receives		
incident clearance and/or incident severity, location, and type information		
Receive information on Incident Clearance	Caltrans District 12	Caltrans District 12
receive information on incident Glearance	Califalis District 12	Califalis District 12

	Garden Grove City		
Agency Name	1999	2005	
Receive information on Incident Severity, Location, and Type	Caltrans District 12	Caltrans District 12	
Toll Collection agencies from which your agency receives arterial travel			
times derived from vehicles probes	None listed	None listed	
Arterial Incident Management Section			
Agencies your agency provides incident severity, location, and type info.			
and/or shares infrastructure and/or coordinates operation			
Emergency Management Agencies			
Provide Information			
	Caltrans District 12, Garden Grove City Fire & EMS Department, Garden Grove City Police Department	None listed	
Share Infrastructure		i tomo notou	
	Caltrans District 12, Garden Grove City Police Department	None listed	
Coordinate Operation	, i		
	Caltrans District 12, Garden Grove City Police Department	None listed	
Freeway Management Agencies			
Provide Information	Caltrans District 12	None listed	
Share Infrastructure	Caltrans District 12	None listed	
Coordinate Operation	Caltrans District 12	None listed	
Public Transit Operators			
Provide Information	Orange County Transportation Authority	None listed	
Share Infrastructure	Orange County Transportation Authority	None listed	
Coordinate Operation	Orange County Transportation Authority	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			

	Garde	en Grove City
Agency Name	1999	2005
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		
	Caltrans District 12, Santa	
artarial traval times, anada, and conditions	Ana City	None listed
arterial travel times, speeds, and conditions	Alia City	None listed
Freeway Management agencies from which your agency receives		
freeway travel times, speeds, and conditions	Caltrans District 12	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.

	(Glendale City	Huntingto	on Beach City
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Arterial Mgt. agencies in metropolitan area with which you share info.				
Share Timing Plans Information				
	None listed	Burbank City	None listed	None listed
Coordinate Changes to Timing Plans				
			Fountain Valley City,	Fountain Valley City,
		Caltrans District 7, Los	Westminister City, Seal	Westminister City, Seal
	None listed	Angeles City, Burbank City	Beach City	Beach City
Turn over Control of Signals				
	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and	INOTIC IISICU	INOTIC IISLEU	INOTIC IISICU	INOTIC IISICU
conditions information, share infrastructure or coordinates operation				
Freeway Management Agencies				
Provide Information				
	None listed	Caltrans District 7	None listed	Caltrans District 12
Share Infrastructure	None listed	None listed	None listed	Caltrans District 12
Coordinate Operation	None listed			
·	None listed	Caltrans District 7	None listed	Caltrans District 12
Incident Management Agencies				
Provide Information				Caltrans District 12,
		Caltrans District 7, Burbank		Fountain Valley City, Seal Beach City, Westminister
	None listed	City, Los Angeles City	None listed	City
Share Infrastructure		2 1,7, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		7
				Caltrans District 12,
				Fountain Valley City, Seal
	None listed	Nana listad	None listed	Beach City, Westminister City
Coordinate Operation	None listed	None listed	None listed	City
Socialitate operation				Caltrans District 12,
				Fountain Valley City, Seal
		Caltrans District 7, Burbank		Beach City, Westminister
	None listed	City, Los Angeles City	None listed	City
Public Transit Operators Agencies				
Provide Information				
				Orange County
	None listed	None listed	None listed	Transportation Authority

	Gl	lendale City	Huntir	ngton Beach City
Agency Name	1999	2005	1999	2005
Share Infrastructure				
			l	Orange County
Coordinate Operation	None listed	None listed	None listed	Transportation Authority
Coordinate Operation				
				Orange County
	None listed	None listed	None listed	Transportation Authority
Arterial Management Agencies				
Provide Information				
				Caltrans District 12, Costa
		Los Angeles City, Burbank	l	Mesa City, Huntington
	None listed	City	None listed	Beach City
Share Infrastructure				
				Caltrans District 12, Costa
				Mesa City, Huntington
	None listed	None listed	None listed	Beach City
Coordinate Operation				
				Caltrana District 12 Casta
		Los Angeles City, Burbank		Caltrans District 12, Costa Mesa City, Huntington
	None listed	City	None listed	Beach City
Receiving real-time information via electronic means from others	TTOTIC HOLOG	0.0	Trong noted	2000.1 0.1.9
Freeway Management agencies from which your agency receives				
				Caltrans District 12,
				Fountain Valley City, Seal
				Beach City, Westminister
freeway travel times, speeds, and conditions	None listed	Caltrans District 7	None listed	City
Public Transit operators from which your agency receives				
				Orange County
arterial travel times derived from vehicle probes	None listed	None listed	None listed	Transportation Authority
Incident Management agencies from which your agency receives				
incident clearance and/or incident severity, location, and type information				
Receive information on Incident Clearance	Caltrans District 7	Caltrans District 7	None listed	Caltrans District 12, OCTA

	Glend	Glendale City		Huntington Beach City	
Agency Name	1999	2005	1999	2005	
Receive information on Incident Severity, Location, and Type	Caltrans District 7	Caltrans District 7	None listed	Caltrans District 12, OCTA	
Toll Collection agencies from which your agency receives arterial travel					
		N. P. C.	N	Caltrans, Transportation	
times derived from vehicles probes Arterial Incident Management Section	None listed	None listed	None listed	Corridor Agencies	
Agencies your agency provides incident severity, location, and type info.					
and/or shares infrastructure and/or coordinates operation					
Emergency Management Agencies					
Provide Information					
	None listed	Caltrans District 7	None listed	None listed	
Share Infrastructure	None listed	Cultivitio Biotrict 7	None listed	None listed	
Chare illinativation					
	None listed	None listed	None listed	None listed	
Coordinate Operation					
	None listed	Caltrans District 7	None listed	None listed	
Freeway Management Agencies					
Provide Information	None listed	Caltrans District 7	None listed	None listed	
Share Infrastructure	None listed	None listed	None listed	Caltrans District 12	
Coordinate Operation	None listed	Caltrans District 7	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					
	Name Bated	Name Batani	Niana Batad	Name Bakad	
Descriving real time information via algebraids were from athems	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					

	Glend	Glendale City		Beach City
Agency Name	1999	2005	1999	2005
Receive Arterial Incident Clearance Information	None listed	Caltrans District 7, Burbank City	None listed	None listed
Receive Arterial Incident Severity Information Arterial Management agencies from which your agency receives	None listed	Caltrans District 7, Burbank City	None listed	None listed
arterial travel times, speeds, and conditions	None listed	Caltrans District 7, Los Angeles City, Burbank City	None listed	Fountain Valley City, Westminister City, Caltrans District 12
Freeway Management agencies from which your agency receives freeway travel times, speeds, and conditions	None listed	Caltrans District 7	None listed	Caltrans District 12

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

	Inglewood City		Long B	each City
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Arterial Mgt. agencies in metropolitan area with which you share info.				
Share Timing Plans Information	None listed	L.A. Department of Airports	Caltrans District 7, Lakewood City, Signal Hill City	Signal Hill City
Coordinate Changes to Timing Plans	None listed	Caltrans District 7, Los Angeles City, Los Angeles County, L.A. Department of Airports	Caltrans District 7, Lakewood City, Signal Hill City	Caltrans District 7, Lakewood City, Signal Hill City
Turn over Control of Signals				
	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and	Trone noted	Trone nated	None listed	TVOTIC HOLEG
conditions information, share infrastructure or coordinates operation				
Freeway Management Agencies				
Provide Information	None listed	Caltrans District 7	Caltrans District 7	Caltrans District 7
Share Infrastructure	None listed	None listed	Caltrans District 7	Caltrans District 7
Coordinate Operation	None listed	Caltrans District 7	Caltrans District 7	Caltrans District 7
Incident Management Agencies				
Provide Information				
Share Infrastructure	None listed	Caltrans District 7	None listed	None listed
	None listed	None listed	None listed	None listed
Coordinate Operation				
	None listed	Caltrans District 7	None listed	None listed
Public Transit Operators Agencies		22.00.00		
Provide Information				
	None listed	LACMTA Lines	Long Beach Public Transportation Company, MTA	Long Beach Public Transportation Company, MTA

		Inglewood City	Long Be	each City
Agency Name	1999	2005	1999	2005
Share Infrastructure				
			Long Beach Public	Long Beach Public
			Transportation	Transportation
	None listed	None listed	Company	Company
Coordinate Operation				
			Long Beach Public	Long Beach Public
	None listed	LACMTA Lines	Transportation Company, MTA	Transportation Company, MTA
Arterial Management Agencies	None listed	LACIVITA LINES	Company, WTA	Company, WTA
Provide Information				
1 Tovide information				
		Caltrana Diatriot 7 Las		
		Caltrans District 7, Los Angeles City, Los Angeles	Lakewood City,	Lakewood City,
	None listed	County, L,A, World Airports	Signal Hill City	Signal Hill City
Share Infrastructure	TYOTIC IISICU	County, E,rt, World rimports	oignar riii oity	olgital Filli Oity
Charo minada dotaro				
			Lakewood City,	Lakewood City,
	None listed	None listed	Signal Hill City	Signal Hill City
Coordinate Operation				
		Caltrans District 7, Los	1.00	
	None listed	Angeles City, Los Angeles County, L,A, World Airports	Lakewood City, Signal Hill City	Lakewood City, Signal Hill City
Receiving real-time information via electronic means from others	None listed	County, L,A, World Airports	Signal Fill City	Signal Fill City
Freeway Management agencies from which your agency receives				
Treeway management agencies from which your agency receives				
			Caltrans District 12,	Caltrans District 12,
freeway travel times, speeds, and conditions	None listed	Caltrans District 7	Caltrans District 72,	Caltrans District 72,
Public Transit operators from which your agency receives	Trono notou		Canada Diotriot i	
- and the second				Lang Dagah Dubba
				Long Beach Public Transportation
arterial travel times derived from vehicle probes	None listed	None listed	None listed	Company
Incident Management agencies from which your agency receives	INOTIC HOLEU	Notic listed	I VOITE IISTEU	Company
incident management agencies from which your agency receives incident clearance and/or incident severity, location, and type information				
mordent occurance and/or mordent severty, rocation, and type information				
Receive information on Incident Clearance	None listed	None listed	None listed	Caltrans District 7

	Ingle	wood City	Lon	Long Beach City	
Agency Name	1999	2005	1999	2005	
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	Caltrans District 7	
Toll Collection agencies from which your agency receives arterial travel	None listed	None listed	None listed	Califalls District 1	
Ton concentration agencies from which your agency receives afterial daver					
times derived from vehicles probes	None listed	None listed	None listed	None listed	
Arterial Incident Management Section					
Agencies your agency provides incident severity, location, and type info.					
and/or shares infrastructure and/or coordinates operation					
Emergency Management Agencies					
Provide Information					
	Inglewood City Fire				
	Department, Inglewood				
	City Police Department	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	
Freeway Management Agencies	Notice listed	None listed	None listed	None listed	
Provide Information	Caltura na Diatriat 7	Nama lintad	Name lieted	Nama lintad	
Share Infrastructure	Caltrans District 7	None listed	None listed	None listed	
	None listed	None listed	None listed	None listed	
Coordinate Operation	None listed	None listed	None listed	None listed	
Public Transit Operators					
Provide Information				Long Beach Public	
	1474	Niewe Beterd	Niana Bakad	Transportation	
Share Infrastructure	MTA	None listed	None listed	Company	
Share mhashucture				Long Beach Public Transportation	
	None listed	None listed	None listed	Company	
Coordinate Operation	Notice listed	None listed	INOTIC IISICU	Long Beach Public	
ood an all operation				Transportation	
	None listed	None listed	None listed	Company	
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					

	Inglewood City		Long B	each City
Agency Name	1999	2005	1999	2005
Receive Arterial Incident Clearance Information	Caltrans District 7	None listed	None listed	None listed
Desaive Arterial Insident Coverity Information	Caltrans District 7	None listed	None listed	None listed
Receive Arterial Incident Severity Information	Califaits District 7	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
	Caltrans District 7, Los			
	Angeles City, Los			
arterial travel times, speeds, and conditions	Angeles County	None listed	None listed	None listed
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	Caltrans District 7	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.

	Los	s Angeles City	Pasadena City		
Agency Name	1999	2005	1999 200		
Agency Returned Survey?	Yes		Yes		
Arterial Management Section					
Arterial Mgt. agencies in metropolitan area with which you share info.					
Share Timing Plans Information					
	None listed	Los Angeles County	None listed	None listed	
Coordinate Changes to Timing Plans					
		Caltrans District 7,			
		Glendale City, Los Angeles			
	None listed	County	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	None listed	None listed	None listed	None listed	
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	Nana liatad	
Coordinate Operation	None listed	None listed	None listed	None listed	
	None listed	None listed	None listed	None listed	
Incident Management Agencies					
Provide Information					
		Caltrans District 7, Los			
	Caltrans District 7	Angeles County	None listed	None listed	
Share Infrastructure		, angeree econity	TTOTIC HOLCG	Trone noted	
	Caltrana Diatrict 7	Caltrans District 7, Los Angeles County	None listed	Nana liatad	
Coordinate Operation	Caltrans District 7	Arigeles County	None listed	None listed	
Obordinate Operation					
		Caltrans District 7, Los			
	Caltrans District 7	Angeles County	None listed	None listed	
Public Transit Operators Agencies					
Provide Information					
	None listed	None listed	None listed	None listed	

	Los Angeles City		Pas	sadena City
gency Name	1999	2005	1999	2005
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 7,		
	Caltrans District 7,	Glendale City, Los Angeles		
	Glendale City	County	None listed	None listed
Share Infrastructure		·		
		Caltrans District 7,		
	Caltrans District 7,	Glendale City, Los Angeles		
	Glendale City	County	None listed	None listed
Coordinate Operation				
	Oalton a Diatoiat 7	Caltrans District 7,		
	Caltrans District 7, Glendale City	Glendale City, Los Angeles County	None listed	None listed
eceiving real-time information via electronic means from others	Gleridale City	County	None listed	None listed
Freeway Management agencies from which your agency receives				
, , , ,				
freeway travel times, speeds, and conditions	Caltrans District 7	Caltrans District 7	None listed	None listed
Public Transit operators from which your agency receives				
arterial travel times derived from vehicle probes	None listed	None listed	None listed	None listed
Incident Management agencies from which your agency receives				
incident clearance and/or incident severity, location, and type information				
Descive information on Incident Clearans	None listed	None listed	None liets d	None listed
Receive information on Incident Clearance	None listed	None listed	None listed	None listed

	Los	Angeles City	Pa	Pasadena City		
Agency Name	1999	2005	1999	2005		
Describe information on Institute County I section and Tons	Niene Beterl	Niene Beterd	Niana Batad	Nicoca Bakad		
Receive information on Incident Severity, Location, and Type Toll Collection agencies from which your agency receives arterial travel	None listed	None listed	None listed	None listed		
Toll Collection agencies from which your agency receives afterial travel						
times derived from vehicles probes	None listed	None listed	None listed	None listed		
Arterial Incident Management Section	. tono notos	Trono notos		. torro motou		
Agencies your agency provides incident severity, location, and type info.						
and/or shares infrastructure and/or coordinates operation						
Emergency Management Agencies						
Provide Information						
	Caltrans District 7	Caltrans District 7	None listed	None listed		
Share Infrastructure						
	Caltrans District 7	Caltrans District 7	None listed	None listed		
Coordinate Operation						
	Caltrans District 7	Caltrans District 7	None listed	None listed		
Freeway Management Agencies	Califalis District 1	Califalis District 1	None listed	None listed		
Provide Information	None listed	None listed	None listed	None listed		
Share Infrastructure	None listed	None listed	None listed	None listed		
Coordinate Operation						
Public Transit Operators	None listed	None listed	None listed	None listed		
Provide Information						
Provide information						
	None listed	None listed	None listed	None listed		
Share Infrastructure	None listed	Notice listed	None listed	None listed		
	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						

	Los	Angeles City	Pa	sadena City
Agency Name	1999	2005	1999	2005
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				1 1 1 1 1 1 1 1
freeway travel times, speeds, and conditions	Caltrans District 7	Caltrans District 7	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.

	Po	mona City	Ri	iverside City
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Arterial Management Section				
Arterial Mgt. agencies in metropolitan area with which you share info.				
Share Timing Plans Information				
	None listed	None listed	Caltrans District 8	Caltrans District 8
Coordinate Changes to Timing Plans				
	None listed	None listed	Caltrans District 8	Caltrans District 8
Turn over Control of Signals				
	None listed	None listed	None listed	None listed
Agencies your agency provides arterial travel times, speeds, and	TYONG NOCCO	TTOTIC IIOCCU	Trone noted	Trone noted
conditions information, share infrastructure or coordinates operation				
Freeway Management Agencies				
Provide Information	N P 4	N	N. P. C.	
Share Infrastructure	None listed	None listed	None listed	None listed
	None listed	None listed	None listed	None listed
Coordinate Operation	None listed	None listed	None listed	None listed
Incident Management Agencies				
Provide Information				
	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	Notice listed
Chare initiative details				
	Niana Bakad	Niene Bekent	Name Bate d	Name Batad
Coordinate Operation	None listed	None listed	None listed	None listed
Coordinate Operation				
Public Transit Onevatera Aransias	None listed	None listed	None listed	None listed
Public Transit Operators Agencies Provide Information				
1 TOVIGE IIIIOTTIIGUOTI				
	None listed	None listed	None listed	None listed

	Po	mona City	F	Riverside City
Agency Name	1999	2005	1999	2005
Share Infrastructure				
	Nama lintad	Nama liatad	Nama lintad	Name listed
Coordinate Operation	None listed	None listed	None listed	None listed
Octamate operation				
	None listed	None listed	None listed	None listed
Arterial Management Agencies Provide Information				
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				
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions	None listed	None listed	None listed	None listed
Public Transit operators from which your agency receives	Trono notou	TTOTIO HOLOG	Ttorio ilotod	Trono noted
arterial travel times derived from vehicle probes	None listed	None listed	None listed	None listed
Incident Management agencies from which your agency receives				
incident clearance and/or incident severity, location, and type information				
Receive information on Incident Clearance	None listed	None listed	None listed	None listed

	Po	mona City	F	Riverside City		
Agency Name	1999	2005	1999	2005		
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed		
Toll Collection agencies from which your agency receives arterial travel						
times derived from vehicles probes	None listed	None listed	None listed	None listed		
Arterial Incident Management Section	Trono notou	Trono notod	Trono notou	Trono notod		
Agencies your agency provides incident severity, location, and type info.						
and/or shares infrastructure and/or coordinates operation						
Emergency Management Agencies						
Provide Information						
	None listed	None listed	None listed	None listed		
Share Infrastructure						
	Niama Batad	Niere Bekert	Name Patert	Name Baked		
Coordinate Operation	None listed	None listed	None listed	None listed		
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						
	Name Batan	Niene Bekent	Name Batad	Name Baked		
Descriving year time information via electronic magnetican etc.	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						

	Pomona City		Rivers	ide City
Agency Name	1999	2005	1999	2005
Receive Arterial Incident Clearance Information	None listed	None listed	None listed	None listed
		.	N	N 1
,	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.

	San I	Bernardino City	Sa	Santa Ana City	
gency Name	1999	2005	1999	2005	
gency Returned Survey?	Yes		Yes		
rterial Management Section					
rterial Mgt. agencies in metropolitan area with which you share info.					
Share Timing Plans Information					
	Caltrans District 8	Caltrans District 8	short survey	None listed	
Coordinate Changes to Timing Plans					
	Caltrans District 8	Caltrans District 8	short survey	None listed	
Turn over Control of Signals					
	Caltrans District 8	Caltrans District 8	None listed	None listed	
Agencies your agency provides arterial travel times, speeds, and	Califalis District 6	Califalis District 0	None listed	None listed	
conditions information, share infrastructure or coordinates operation					
Freeway Management Agencies					
Provide Information					
Oh and Infrastructure	Caltrans District 8	Caltrans District 8	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	
Incident Management Agencies					
Provide Information					
Chara Infrastructura	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	

	San I	Bernardino City	Sa	Santa Ana City	
gency Name	1999	2005	1999	2005	
Share Infrastructure					
	None listed	None listed	None listed	None listed	
Coordinate Operation	Trono notou	. tono notos	Trong motor	Trong notes	
	None listed	None listed	None listed	None listed	
Arterial Management Agencies	Trone listed	TYONG HOLEG	TYONG NOCCO	TTOTIC HOLEG	
Provide Information					
	Caltrans District 8	Caltrans District 8	None listed	None listed	
Share Infrastructure	Califalis District 0	Califalis District 6	None iisteu	None listed	
	None listed	None listed	None listed	None listed	
Coordinate Operation					
	Caltrans District 8	Caltrans District 8	None listed	None listed	
eceiving real-time information via electronic means from others					
Freeway Management agencies from which your agency receives					
freeway travel times, speeds, and conditions	None listed	None listed	short survey	None listed	
Public Transit operators from which your agency receives	. Torro notou	. torio notod	Short carrey	. 10110 110100	
arterial travel times derived from vehicle probes	None listed	None listed	None listed	None listed	
Incident Management agencies from which your agency receives					
incident clearance and/or incident severity, location, and type information					
Receive information on Incident Clearance	None listed	None listed	None listed	None listed	

	San Bern	ardino City	Santa	Ana City
Agency Name	1999	2005	1999	2005
Receive information on Incident Severity, Location, and Type	None listed	None listed	None listed	None listed
Toll Collection agencies from which your agency receives arterial travel				
times deviced from unhides muchos	Nama liatad	Nama liatad	Nama linkad	Nama liatad
times derived from vehicles probes Arterial Incident Management Section	None listed	None listed	None listed	None listed
Agencies your agency provides incident severity, location, and type info.				
and/or shares infrastructure and/or coordinates operation				
Emergency Management Agencies				
Provide Information				
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
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				
Oh ava lafaashu ah va	None listed	None listed	None listed	None listed
Share Infrastructure				
	None listed	None listed	None listed	None listed
Coordinate Operation	INOTIC HOLEU	I VOITE II SIEU	I VOITE IISIEU	I VOTIC IISICU
SSS. S. I. S. C. Spordilott				
	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				

	San Bernardino City		Santa	Ana City
Agency Name	1999	2005	1999	2005
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				
	N. P. C.			
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.

Appendix H
Arterial Management Information Collection and Dissemination

	Anaheim City			District 12
Agency Name	1999	2005	1999	2005
	Yes		Yes	
Arterial Management Section				
Data collected, archived, and/or transferred to another agency				
	Traffic volumes, Turning	Traffic volumes, Traffic		
	movements, Phasing/cycle lengths, Emergency vehicle signal preemption	speeds, Lane occupancy, Turning movements, Phasing/cycle lengths, Current work zones	NR	NR
Archived by your agency	AID.	NO	ND.	NO
	NR	NR	NR	NR
Transferred to another agency by your agency	NR	NR	NR	NR
Importance of making information available to the public	INIX	IVIX	1413	1417

	Anaha	ina City	Caltrans District 12		
Agency Name	1999	eim City 2005	1999	2005	
Ranked High	1999	2005	1999	2005	
	ND		ND		
Ranked Medium	NR		NR		
	NR		NR		
Ranked Low	IVIX		IVIC		
	Traffic volumes, Turning m				
Groups that make requests for the data	lengths, Emergency vehicl	e signal preemption	NR		
	State DOT personnel, Univ	versities, Media (I.e., TV			
	stations, radio stations), M	POs, Consultants, ation Systems (ATIS) provi	NR		
What is the data used for?					
	Traffic analysis, Constructi Planning, Incident detection				
	Dissemination to the public		NR		
Methods used to disseminate arterial information to the public					
Technologies your agency uses to disseminate:				Dedicated cable TV, Telephone system, Internet Web sites, Pagers or personal data assistants, Interactive TV, Kiosks, E-mail or other	
	Dedicated cable TV, Internet Web sites, Kiosks	Dedicated cable TV, Internet Web sites, Kiosks	NR	direct PC communication, In-vehicle navigation systems	
Technologies your agency (through another agency or org.) uses to disseminate:					
	ND	ND	ND	ND.	
	NR	NR	NR	NR	

	An	Anaheim City		ans District 12			
Agency Name	1999	2005	1999	2005			
Internet web site reporting arterial conditions							
	www.anaheim.net		NR				
Telephone system for reporting arterial information to the public	NR		NR				
Organizations your agency sends information for dissemination to the public							
	 Orange County Tran Caltrans 	sportation Authority	NR				
Arterial Incident Management Section	Z Califalis		IVIX				
Methods used to distribute incident location and severity information							
to the public							
Technologies your agency uses to disseminate:							
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, Interactive TV, Kiosks, E-mail or other direct PC communication, In-vehicle navigation systems			
Internet web site reporting incident information	NR NR	NR	NR 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				

Agency Name Agenc							
Archived by your agency Traffic volumes, Traffic speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths Traffic volumes, Traffic speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths Traffic volumes, Traffi	Aganay Nama	Costa Mesa City			1		
Artchized by your agency Archived by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Indients, Current work zones, Scheduled work zon	Agency Name	1999	2005	1999	2005		
Artchized by your agency Archived by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Indients, Current work zones, Scheduled work zon	Agency Peturned Survey?	V					
Data collected, archived, and/or transferred to another agency Collected by your agency Lane occupancy, Vehicle classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Schedule		Yes		Yes			
Lane occupancy, Vehicle classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones (conditions, Emergency) vehicle elassification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Scheduled work zones, Scheduled work zones (conditions, Emergency) vehicle elassification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work z							
Lane occupancy, Vehicle classification, Queues, Route designations frow emergency, etc.), incidents, Current work zones. Scheduled work zones. Archived by your agency Archived by your agency Archived by your agency Archived by your agency Lane occupancy, Vehicle classification, Queues, Route designations (show emergency, etc.), incidents, Current work zones, Scheduled work zones, Scheduled work zones. Schedule							
dassification, Oueues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled wor	Solicolog by your agonoy						
dassification, Oueues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled wor							
dassification, Oueues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled wor			Lana aggunanay Vahiala				
Traffic volumes, Traffic speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths. Archived by your agency Archived by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths and procedures, speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths and procedures, speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths and procedures, Practice and procedures, Practice and Phasing/cycle lengths and procedures, Practice and Phasing/cycle lengths and procedures, Practice and Phasing/cycle lengths a							
### Indicates, Current work speeds, Turning movements, Road conditions, Emergency, Vehicle designations (speeds, Turning movements, Road conditions, Emergency) and the properties of the proper							
Traffic volumes, Traffic speeds, Turning novements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths. Archived by your agency Archived by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Lane occupancy, Vehicle classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled wo			emergency, etc.),				
speeds, Turning movements, Road conditions, Emergency wehicle signal preemption, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zone							
movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones. Scheduled work zones with the properties of the p							
conditions, Emergency whicle signal preemption. Phasing/cycle lengths Archived by your agency Archived esignations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Schedul					Speeds, Lane occupancy,		
Archived by your agency Archived by Archived by your agency Archived by Archived		, and the second					
Archived by your agency Archived by your agency, Vehicle classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled work zones, Scheduled work zones, Scheduled work zones, Scheduled work zones Archived by your agency Archived by Archi							
Lane occupancy, Vehicle classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled			coordination information		zones		
classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled wo	Archived by your agency						
classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled wo							
classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled wo							
classification, Queues, Route designations (snow emergency, etc.), Incidents, Current work zones, Scheduled wo							
Traffic volumes, Traffic speeds, Turning movements, Road conditions, Emergency, etc.), Incidents, Current work zones, Scheduled work							
Traffic volumes, Traffic speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths Transferred to another agency by your agency NR Remergency, etc.), Incidents, Current work zones, Scheduled work zones Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Schedul							
Traffic volumes, Traffic speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths Transferred to another agency by your agency Transferred to another agency by Nour agency NR Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones,							
speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths Transferred to another agency by your agency Transferred to another agency by four agency NR Speeds, Turning movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Schedule							
movements, Road conditions, Emergency vehicle signal preemption, Phasing/cycle lengths rounded another agency by your agency Transferred to another agency by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zone			zones, Scheduled work				
conditions, Emergency vehicle signal preemption, Phasing/cycle lengths Transferred to another agency by your agency Transferred to another agency by four agency NR routes and procedures, Highway operations coordination information Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones							
vehicle signal preemption, Phasing/cycle lengths Transferred to another agency by your agency Transferred to another agency by your agency Transferred to another agency by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones							
Phasing/cycle lengths coordination information work zones work zones Transferred to another agency by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones, Scheduled work zones NR NR NR NR work zones work zones Work zones Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones, Scheduled work zones			•				
Transferred to another agency by your agency Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones NR NR NR Traffic volumes, Traffic speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones, Scheduled work zones							
speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work NR speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones	Transferred to another agency by your agency						
speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work NR speeds, Lane occupancy, Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones							
Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones NR NR Phasing/cycle lengths, Incidents, Current work zones, Scheduled work zones, Scheduled work zones, Scheduled work zones				Traffic volumes, Traffic	Traffic volumes, Traffic		
Incidents, Current work zones, Scheduled work zones, Scheduled work zones zones					speeds, Lane occupancy,		
NR NR zones, Scheduled work zones zones, Scheduled work zones							
NR NR zones zones							
		NR	NR				
	Importance of making information available to the public	1111		201100	201100		

	Costa N	lesa City	Garden (Grove City	
Agency Name	1999	2005	1999	2005	
Ranked High	Route designations (snow Incidents, Emergency/evad		Traffic speeds, Lane occup	pancy, Phasing/cycle	
D. I. IM. F	procedures		lengths, Incidents		
Ranked Medium	Traffic volumes, Traffic spe Vehicle classification, Roa				
	vehicle signal preemption, Current work zones, Highv information	Weather conditions, way operations coordination	Traffic volumes, Current w	ork zones, Scheduled work	
Ranked Low	iniormation		zones		
	Probe vehicles, Turning m vehicle signal priority, Sch- Intermodal (air, rail, water) Phasing/cycle lengths		sit NR		
Groups that make requests for the data					
	MPOs, Consultants, Advar Systems (ATIS) provi	nced Traveler Information	State DOT personnel, MPOs, Consultants, Advance Traveler Information Systems (ATIS) provi		
What is the data used for?	Traffic analysis, Constructi Planning, Roadway impac			Incident detection algorithm	
	the public	1	development, Dissemination to the public		
Methods used to disseminate arterial information to the public					
Technologies your agency uses to disseminate:	Kiosks	Dedicated cable TV, Telephone system, Internet Web sites, E-mail or other direct PC communication	Direct intertie with state and MPO	Direct intertie with state and MPO	
Technologies your agency (through another agency or org.) uses to disseminate:	Dedicated cable TV, Telephone system, Internet Web sites, Kiosks	E-mail or other direct PC communication, Cell phone/voice, Cell phone/data	Direct intertie with state and MPO	Direct intertie with state and MPO	

	Costa Mesa City		Garden	Grove City	
Agency Name	1999	2005	1999	2005	
Internet web site reporting arterial conditions	Caltrans by 2005 OCTA by 2000 City of Santa Ana		NR		
Telephone system for reporting arterial information to the public	NR		NR		
Organizations your agency sends information for dissemination to the public	OCTA via the TravelTip Pr	rogram by 2000	Orange County Transportation Authority State of California District 12, Traffic Management Center City of Santa Ana Traffic Center		
Arterial Incident Management Section					
Methods used to distribute incident location and severity information					
to the public					
	NR	Dedicated cable TV, Internet Web sites, Kiosks	Dedicated cable TV	Interactive TV	
Technologies your agency (through another agency or org.) uses to disseminate: Internet web site reporting incident information	NR	Dedicated cable TV, Internet Web sites, Telephone system, Pagers or personal data assistants, Kiosks, E-mail or other direct PC communication, In-vehicle navigation systems	Dedicated cable TV	NR	
	NR		dont know		
Telephone system for reporting incident information to the public	NR		NR		
Organizations your agency sends information for dissemination to the public	OCTA by 2000		Cable Channel #3		

Glendale City
1999 2005
Yes
100
erred to another agency
orrow to unotified agonty
Traffic volumes, Traffic speeds, Vehicle classification, Turning movements, Queues, Phasing/cycle lengths, Road conditions, Emergency vehicle sign preemption, Transit vehicle signal priority, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation NR
NR routes and procedures
Traffic volumes, Traffic speeds, Turning movements, Phasing/cycle lengths, Road conditions, Emergency vehicle sign preemption, Transit vehicle signal priority, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation NR routes and procedures
Traffic volumes, Traffic speeds, Turning movements, Road conditions, Incidents, Current work zones, Scheduled work zones, Emergency/evacuation
NR routes and procedures
NR ilable to the public

	Glendale City			
Agency Name	1999	2005		
Ranked High				
	Traffic volumes, Turning movements, Road conditions, Incidents, Current work zones, Sched work zones, Emergency/evacuation routes and procedures			
Ranked Medium				
	Traffic speeds, Queue	S		
Ranked Low				
	Lana aggunangy Vahi	ala alassification Droba		
	Lane occupancy, Vehicle classification, Probe vehicles, Phasing/cycle lengths, Emergency vehi			
		nsit vehicle signal priority		
Groups that make requests for the data				
What is the date weed for	Consultants, Real Esta	ate Agencies		
What is the data used for?				
	Traffic analysis, Planning			
Methods used to disseminate arterial information to the public				
Technologies your agency uses to disseminate:				
		Dedicated cable TV,		
	NR	Internet Web sites, Kios		
Technologies your agency (through another agency or org.) uses to disseminate:				
	NR	NR		
	LALX	Livix		

A 1		lendale City
Agency Name	1999	2005
Internet web site reporting arterial conditions		
	NR	
Telephone system for reporting arterial information to the public	NR	
Organizations your agency sends information for dissemination to the public		
	NR	
Arterial Incident Management Section		
Methods used to distribute incident location and severity information		
to the public		
Technologies your agency uses to disseminate: Technologies your agency (through another agency or org.) uses to disseminate:	NR	Dedicated cable TV, Internet Web sites, E-mail or other direct PC communication
	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 I Transit Management Components

		Services porated		Antelope Valley Transit Authority		Arcadia Transit		Commerce City Municipal Buslines	
	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	NR	NR	14	NR	NR	NR	9	9	
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR	
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR	
Demand Responsive	326	500	NR	NR	18	NR	3	3	
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									
Primary Technologies									
GPS	No	No	No	No	Yes	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	
Backup Technologies									
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	18	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		
Have Automated Traveler Information System?	No		No		No		No		

		Services porated		Antelope Valley Transit Authority Arca		a Transit	Commerce City Municipa Buslines	
	1999	2005	1999	2005	1999	2005	1999	2005
Services Automated Traveler Info. System Applies:								
Fixed Route	No		No		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		No	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public	110		110		110		110	†
Number of bus stops on fixed transit routes	NR	NR	NR	NR	NR	NR	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	1							
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								
Attributes of Radio System:								
Digital?	Yes		No		Yes		No	
Analog?	No		Yes		No		Yes	
Trunked?	Yes		No		Yes		No	
Regular?	No		Yes		No		Yes	
Services that use a Digital or Trunked Radio System								
<u>Digital Only</u>								<u> </u>
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
Trunked Only	ļ							
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

	Access Services Incorporated		Antelope Valley Transit Authority		Arcadia Transit		Commerce City Munic	
	1999	2005	1999	2005	1999	2005	1999	2005
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								
Primary Technologies								
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
Backup Technologies								
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								
Remote Real-Time Monitoring								
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
i eny boat	INIX	INIX	INL	INIX	INIX	INIX	INIX	INIX

		Services porated		alley Transit hority	Arcadi	a Transit		City Municipal lines
	1999	2005	1999	2005	1999	2005	1999	2005
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	285	500	NR	NR	18	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?	NR		No		Yes		NR	
Modes that TMC currently controls:								
Highways	No	No	No	No	No	Yes	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			1.10			1.10	1.10	
Priority at Traffic Signals								
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
Ramp Meter Priority								
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						<u> </u>		
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Heavy or Rapid Rail	NR ND	NR	NR	NR	NR	NR ND	NR	NR
Light Rail Demand Responsive	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR
Commuter Rail	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR
Ferry Boat	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR
ITS Standards Used Related to Transit Management	INIX	INIX	INF	INIX	INITS	INIX	INIX	INIX
TCIP On Boad Objects (TCIP-OB)	No		No		No		No	

		Services porated		alley Transit	Arcadia	a Transit		City Municipal
	1999	2005	1999	2005	1999	2005	1999	2005
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		No		Yes		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		No		Yes		No	
Methods of Fare Payment								
Stored value card with fare deducted for each trip								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		Yes		No	
Debit Card	No		No		No		No	
Billed by the month for trips taken								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Credit Card	No		No		No		No	
Monthly Pass								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
Magnetic Stripe Readers								
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
Smart Card Readers							1	
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

		Services orated		alley Transit nority	Arcadia	a Transit		City Municipal lines
	1999	2005	1999	2005	1999	2005	1999	2005
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	NR	NR	NR	18	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
Credit Card								
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
Debit Card								
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					•			

	Corona City	/ Dial-A-Ride	La Mirada	City Transit	Laguna Beach Municipal Transit Lines			Long Beach Public Transportation Company	
	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	0	8	NR	NR	10	12	203	260	
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR	
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR	
Demand Responsive	11	6	13	13	NR	NR	26	35	
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									
Primary Technologies									
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	
Backup Technologies									
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	260	
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		Yes		No		
Have Automated Traveler Information System?	Yes		No		No		Yes		

	Corona City	/ Dial-A-Ride	La Mirada	City Transit	_	ach Municipal it Lines		ach Public ion Company
	1999	2005	1999	2005	1999	2005	1999	2005
Services Automated Traveler Info. System Applies:								
Fixed Route	Yes		No		No		Yes	
Heavy Rail	No		No		No		No	
Light Rail	No		No		No		No	
Demand Responsive	Yes		No		No		No	
Commuter Rail	No		No		No		No	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public	INO		NO		INO		INO	
Number of bus stops on fixed transit routes	NR	NR	NR	NR	NR	NR	2.100	2.400
Bus stops on fixed transit routes that display traveler info to the public	NR	NR	NR	NR	NR	NR	2,100 NR	2,400 NR
Number of rail stations	NR	NR	NR	NR	NR	NR	NR	NR
Number of rail stations 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	1	NR
Number of vehicles the traveler information system has available	IVIX	IVIX	IVIX	1417	IVIX	IVIX		IVIX
Fixed Route Bus	0	8	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	6	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								
Attributes of Radio System:								
Digital?	No		No		Yes		No	
Analog?	Yes		Yes		No		Yes	
Trunked?	No		No		No		No	
Regular?	Yes		Yes		Yes		Yes	
Services that use a Digital or Trunked Radio System								
<u>Digital Only</u>								
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
Trunked Only								
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

	Corona City	/ Dial-A-Ride	La Mirada City Transit		Laguna Beach Municipal Transit Lines		Long Beach Public Transportation Company	
	1999	2005	1999	2005	1999	2005	1999	2005
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								
Primary Technologies								
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
Backup Technologies								
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	8	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	6	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								
Remote Real-Time Monitoring								
Fixed Route Bus	0	8	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	6	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
Automated Dispatching or Control Software	1411	1414	1411	1411	1411		1417	1411

	Corona Cit	y Dial-A-Ride	La Mirada City Transit		Laguna Beach Municipal Transit Lines		Long Beach Public Transportation Company	
	1999	2005	1999	2005	1999	2005	1999	2005
Fixed Route Bus	0	8	NR	NR	NR	NR	203	260
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	6	NR	NR	NR	NR	26	35
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?	NR		No		No		No	
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						1.10		
Priority at Traffic Signals								
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
Ramp Meter Priority								
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	0	8	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	6	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
ITS Standards Used Related to Transit Management								
TCIP On Boad Objects (TCIP-OB)	No		No		No		No	

	Corona City	/ Dial-A-Ride	La Mirada	City Transit	Laguna Beach Municipal Transit Lines		Long Beach Public Transportation Company	
	1999	2005	1999	2005	1999	2005	1999	2005
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		Yes		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		No		No		Yes	
Methods of Fare Payment								
Stored value card with fare deducted for each trip								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Debit Card	Yes		No		No		No	
Billed by the month for trips taken								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Credit Card	Yes		No		No		No	
Monthly Pass								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
Magnetic Stripe Readers								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	260
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
Smart Card Readers								
Fixed Route Bus Vehicles	NR	NR	NR	NR	NR	NR	NR	260
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR

	Corona City	Dial-A-Ride	La Mirada City Transit		Laguna Beach Municipal Transit Lines		Long Beach Public Transportation Company	
	1999	2005	1999	2005	1999	2005	1999	2005
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
Credit Card								
Fixed Route Bus Vehicles	NR	8	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	6	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
Debit Card								
Fixed Route Bus Vehicles	NR	8	NR	NR	NR	NR	NR	260
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	6	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								

	Los And	geles City	Montebell	o Bus Lines	Norwalk Tr	Norwalk Transit System		e County tion Authority
	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	256	285	60	65	22	27	442	650
Heavy or Rapid Rail	NR	NR	0	0	NR	NR	NR	NR
Light Rail	NR	NR	0	0	NR	NR	NR	NR
Demand Responsive	108	108	5	5	4	5	172	130
Commuter Rail	NR	NR	0	0	NR	NR	NR	NR
Ferry Boat	NR	NR	0	0	NR	NR	NR	NR
Have of plan to have an Automated Vehicle Location System?	Yes		No		No		Yes	
Primary and Secondary Location Technologies Used								
Primary Technologies								
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	Yes	No	No	No	No	No	Yes
Backup Technologies								
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	10	62	NR	NR	NR	NR	0	650
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	0	130
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		15	
Number of Motor Buses equipped as probes on arterials?	NR		NR		NR		15	
Have Organized Regional Incident Management Program?	No		No		No		Yes	
Have Automated Traveler Information System?	Yes		No		Yes		Yes	

	Los Ang	geles City	Montebell	o Bus Lines	Norwalk Tra	ansit System		County
	1999	2005	1999	2005	1999	2005	1999	2005
Services Automated Traveler Info. System Applies:								
Fixed Route	Yes		No		Yes		Yes	
Heavy Rail	No		No		No		No	
Light Rail	No		No		Yes		No	
Demand Responsive	Yes		No		No		No	
Commuter Rail	No		No		Yes		No	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public	140		140		140		140	
Number of bus stops on fixed transit routes	NR	NR	679	713	NR	NR	0	50
Bus stops on fixed transit routes that display traveler info to the public	NR	NR	0	0	0	0	NR	NR
Number of rail stations	NR	NR	0	0	2	2	NR	NR
Number of rail stations that display traveler information	NR	NR	0	0	NR	NR	NR	NR
Number of other locations that display traveler information to public	NR	NR	0	0	NR	NR	NR	NR
Number of vehicles the traveler information system has available	1			Ť				
Fixed Route Bus	NR	NR	50	50	19	25	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	5	4	4	NR	NR
Commuter Rail	NR	NR	0	0	NR	NR	NR	NR
Ferry Boat	NR	NR	0	0	NR	NR	NR	NR
Deployment of Communications Technology								
Attributes of Radio System:								
Digital?	No		No		No		No	
Analog?	Yes		Yes		No		Yes	
Trunked?	Yes		No		No		Yes	
Regular?	No		Yes		No		No	
Services that use a Digital or Trunked Radio System								
Digital Only								
Fixed Route Bus	No	No	No	Yes	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	Yes	No	No	No	Yes
Commuter Rail	No	No	No	No	No	No	No	No
Ferry Boat	No	No	No	No	No	No	No	No
Trunked Only								
Fixed Route Bus	No	Yes	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

	Los And	ieles City	Montebell	o Bus Lines	Norwalk Transit System		Orange County Transportation Authority	
	1999	2005	1999	2005	1999	2005	1999	2005
Demand Responsive	No	No	No	No	No	No	No	Yes
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		Yes	
Methods used to count passengers								
Treadle Mats	No		No		No		No	
Infrared Beams	No		No		No		Yes	
Primary and Secondary Location Technologies Used								
Primary Technologies								
GPS	No	No	No	No	No	No	No	No
Differential GPS	No	No	No	No	No	No	No	Yes
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
Backup Technologies								
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	60
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	0	0
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								
Remote Real-Time Monitoring								
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
Automated Dispatching or Control Software	INIX	1417	IVIX	INIX	1417	1417	1417	INIX

	Los Ang	geles City	Montebell	o Bus Lines	Norwalk Tr	ansit System	Orange County Transportation Authority	
	1999	2005	1999	2005	1999	2005	1999	2005
Fixed Route Bus	NR	NR	0	65	NR	25	442	650
Heavy or Rapid Rail	NR	NR	0	0	NR	NR	NR	NR
Light Rail	NR	NR	0	0	NR	NR	NR	NR
Demand Responsive	95	101	0	5	NR	4	0	130
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		NR		No		No	
Is there or will there be a Transportation Management Center	-						-	
(TMC) in the region that controls transit and highway modes?	No		NR		Yes		Yes	
Modes that TMC currently controls:	-							
Highways	No	No	No	No	No	Yes	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	110			110		110	110	110
Priority at Traffic Signals								
Fixed Route Bus	NR	62	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
Ramp Meter Priority								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Number of Vehicles Equipped with Navigation Aids	NR	NR	NR	NR	NR	NR	NR	NR
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
ITS Standards Used Related to Transit Management								
TCIP On Boad Objects (TCIP-OB)	No		No		No		No	

	Los Ang	geles City	Montebell	o Bus Lines	Norwalk Tra	ansit System		e County ion Authority
	1999	2005	1999	2005	1999	2005	1999	2005
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		Yes	
Would agency be willing to participate in testing of ITS Standards?	No		Yes		NR		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	1							
Stored value card with fare deducted for each trip								
Magnetic Stripe	No		Yes		No		No	
Smart Card	No		Yes		Yes		No	
Debit Card	No		No		No		No	
Billed by the month for trips taken								
Magnetic Stripe	No		No		No		No	1
Smart Card	No		No		No		No	
Credit Card	No		No		No		No	
Monthly Pass								
Magnetic Stripe	No		No		No		No	1
Smart Card	No		No		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
Magnetic Stripe Readers								
Fixed Route Bus Vehicles	NR	NR	54	65	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	5	5	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
Smart Card Readers	1							
Fixed Route Bus Vehicles	NR	NR	54	65	26	NR	NR	NR
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR

	Los Ang	jeles City	Montebello	Bus Lines	Norwalk Tra	ansit System		County ion Authority
	1999	2005	1999	2005	1999	2005	1999	2005
Light Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive Vehicles	NR	NR	5	5	4	5	NR	NR
Commuter Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR
Ferry Boat Landings	NR	NR	NR	NR	NR	NR	NR	NR
Credit Card								
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
Debit Card								
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								

	Simi Val	ley Transit	South Coas	t Area Transit	Southern California Regional Rail Authority		Torrance City Transit System	
	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	9	9	43	43	NR	NR	46	48
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	0	0
Light Rail	NR	NR	NR	NR	NR	NR	0	0
Demand Responsive	4	6	5	15	NR	NR	6	6
Commuter Rail	NR	NR	NR	NR	152	182	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								
Primary Technologies								
GPS	No	No	No	No	No	Yes	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
Backup Technologies								
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
Number of Vehicles Equipped with AVL								
Fixed Route Bus	NR	NR	NR	NR	NR	NR	0	48
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	0	6
Commuter Rail	NR	NR	NR	NR	0	35	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		Yes		Yes		No	
Have Automated Traveler Information System?	Yes		No		Yes		Yes	

	Simi Vall	ey Transit	South Coast	t Area Transit		California Cail Authority		City Transit stem
	1999	2005	1999	2005	1999	2005	1999	2005
Services Automated Traveler Info. System Applies:								
Fixed Route	Yes		No		No		Yes	
Heavy Rail	No		No		No		No	
Light Rail	No		No		No		No	
Demand Responsive	No		No		No		No	
Commuter Rail	No		No		Yes		No	
Ferry	No		No		No		No	
Locations where traveler information is displayed to public	140		140		140		140	
Number of bus stops on fixed transit routes	NR	NR	NR	NR	NR	NR	470	470
Bus stops on fixed transit routes that display traveler info to the public	NR	NR	NR	NR	NR	NR	30	50
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	10	10
Number of vehicles the traveler information system has available		1111						
Fixed Route Bus	NR	NR	NR	NR	NR	NR	0	0
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								
Attributes of Radio System:								
Digital?	No		No		No		Yes	
Analog?	Yes		Yes		Yes		No	
Trunked?	No		No		No		No	
Regular?	Yes		Yes		Yes		Yes	
Services that use a Digital or Trunked Radio System								
<u>Digital Only</u>								
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
<u>Trunked Only</u>	<u> </u>							
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

	Simi Valley Transit		South Coas	t Area Transit	Southern California Regional Rail Authority		Torrance City Transit	
	1999	2005	1999	2005	1999	2005	1999	2005
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)?	Yes		Yes		No		Yes	
Methods used to count passengers								
Treadle Mats	No		No		No		No	
Infrared Beams	Yes		Yes		No		Yes	
Primary and Secondary Location Technologies Used								
Primary Technologies								
GPS	No	Yes	Yes	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
Backup Technologies								
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	9	43	43	NR	NR	46	48
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								
Remote Real-Time Monitoring								
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	0	35	NR	NR
Ferry Boat	NR	NR	NR	NR	NR	NR	NR	NR
Automated Dispatching or Control Software	IVIX	INIX	INIX	INIX	INIX	INIX	INIX	INIX

	Simi Vall	ey Transit	South Coas	st Area Transit	Southern California Regional Rail Authority		Torrance City Trar System	
	1999	2005	1999	2005	1999	2005	1999	2005
Fixed Route Bus	NR	NR	NR	NR	NR	NR	NR	48
Heavy or Rapid Rail	NR	NR	NR	NR	NR	NR	NR	NR
Light Rail	NR	NR	NR	NR	NR	NR	NR	NR
Demand Responsive	4	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		No		NR		No	
Modes that TMC currently controls:								
Highways	No	No	No	No	No	No	No	No
Fixed Route Bus	No	Yes	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			1.0					
Priority at Traffic Signals								
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
Ramp Meter Priority								
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
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 Boad Objects (TCIP-OB)	No		No		No		No	

	Simi Vall	ey Transit	South Coast	: Area Transit		California ail Authority	Torrance City Transit System	
	1999	2005	1999	2005	1999	2005	1999	2005
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		NR		No	
Have agreements in place with other agencies to use similar hardware								
and software to aid maintenance and interoperability?	No		No		NR		No	
Electronic Fare Payment								
Have full operational Electronic Fare Payment System?	Yes		Yes		No		Yes	
Methods of Fare Payment								
Stored value card with fare deducted for each trip								
Magnetic Stripe	No		No		No		No	
Smart Card	Yes		Yes		No		Yes	
Debit Card	No		Yes		No		No	
Billed by the month for trips taken								
Magnetic Stripe	No		No		No		No	
Smart Card	No		No		No		No	
Credit Card	No		No		No		No	
Monthly Pass								
Magnetic Stripe	No		No		No		No	
Smart Card	Yes		Yes		No		No	
Vehicles/Stations Equipped with Automated Payment Mechanism								
Magnetic Stripe Readers								
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
Smart Card Readers		1						
Fixed Route Bus Vehicles	NR	9	43	43	NR	NR	46	48
Heavy or Rapid Rail Stations	NR	NR	NR	NR	NR	NR	NR	NR

	Simi Vall	ey Transit	South Coast	South Coast Area Transit		Southern California Regional Rail Authority		City Transit tem
	1999	2005	1999	2005	1999	2005	1999	2005
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
Credit Card								
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
Debit Card								
Fixed Route Bus Vehicles	NR	NR	43	43	NR	NR	NR	48
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								

		ley Transit	To	tals
	1999	2005	1999	2005
Agency Returned Survey?	Yes		17	
Number of vehicles used in revenue service				
Fixed Route Bus	20	27	1,134	1,443
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	26	26	727	858
Commuter Rail	NR	NR	152	182
Ferry Boat	NR	NR	0	0
Have of plan to have an Automated Vehicle Location System?	No		5	
Primary and Secondary Location Technologies Used				
Primary Technologies				
GPS	No	No	1	3
Sign/Odometer	No	No	0	0
Dead-Reckoning	No	Yes	0	1
LORAN C	No	No	0	0
Other	No	No	0	2
Backup Technologies				
GPS	No	No	0	1
Sign/Odometer	No	No	0	0
Dead-Reckoning	No	No	0	1
LORAN C	No	No	0	0
Other	No	Yes	0	1
Number of Vehicles Equipped with AVL				
Fixed Route Bus	NR	NR	10	1,020
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	NR	NR	18	136
Commuter Rail	NR	NR	0	35
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		5	
Have Automated Traveler Information System?	No		8	

		lley Transit hority	Totals		
	1999	2005	1999	2005	
Services Automated Traveler Info. System Applies:					
Fixed Route	No		7		
Heavy Rail	No		0		
Light Rail	No		1		
Demand Responsive	No		2		
Commuter Rail	No		2		
Ferry	No		0		
Locations where traveler information is displayed to public	INO		U		
Number of bus stops on fixed transit routes	NR	NR	3,249	3,633	
Bus stops on fixed transit routes that display traveler info to the public	NR	NR	3,249	50	
Number of rail stations	NR	NR	2	2	
Number of rail stations Number of rail stations that display traveler information	NR	NR	0	0	
Number of other locations that display traveler information to public	NR	NR	11	10	
Number of vehicles the traveler information system has available	1417	IVIX	'''	10	
Fixed Route Bus	NR	NR	69	83	
Heavy or Rapid Rail	NR	NR	0	0	
Light Rail	NR	NR	0	0	
Demand Responsive	NR	NR	4	15	
Commuter Rail	NR	NR	0	0	
Ferry Boat	NR	NR	0	0	
Deployment of Communications Technology			-	-	
Attributes of Radio System:					
Digital?	No		4		
Analog?	Yes		12		
Trunked?	No		4		
Regular?	Yes		12		
Services that use a Digital or Trunked Radio System					
<u>Digital Only</u>					
Fixed Route Bus	No	No	1	1	
Heavy or Rapid Rail	No	No	0	0	
Light Rail	No	No	0	0	
Demand Responsive	No	No	0	2	
Commuter Rail	No	No	0	0	
Ferry Boat	No	No	0	0	
<u>Trunked Only</u>					
Fixed Route Bus	No	No	1	1	
Heavy or Rapid Rail	No	No	0	0	
Light Rail	No	No	0	0	

Demand Responsive No Commuter Rail No Ferry Boat No Have of plan to have Automatic Passenger Counters (APCs)? No Methods used to count passengers Treadle Mats No Infrared Beams No Primary and Secondary Location Technologies Used Primary Technologies GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Differential GPS No Differential GPS No Other No Dead_Reckoning No Differential GPS No Differential GPS No Other No Dead_Reckoning No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Dead_Reckoning No LORAN C No Dead_Reckoning No LORAN C No Other No N	Victor Valley Transit Authority		otals
Commuter Rail No Ferry Boat No Have of plan to have Automatic Passenger Counters (APCs)? No Methods used to count passengers Treadle Mats No Infrared Beams No Primary and Secondary Location Technologies Used Primary Technologies GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Differential GPS No Differential GPS No Differential GPS No Other No Differential GPS No Differential GPS No No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Dead_Reckoning No LORAN C No Other No Other No No Number of Vehicles with APCs Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Perry Boat Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Heavy or Rapid Rail NR Remote Real-Time Monitoring	2005	1999	2005
Ferry Boat Have of plan to have Automatic Passenger Counters (APCs)? Methods used to count passengers Treadle Mats Infrared Beams Primary and Secondary Location Technologies Used Primary Technologies GPS No Differential GPS No Signpost/Odometer Dead_Reckoning LORAN C Other Backup Technologies GPS No Differential GPS No Other No Dad_Reckoning No LORAN C Other No Differential GPS No Differential GPS No No No No No No No No No N	No	0	1
Have of plan to have Automatic Passenger Counters (APCs)? Methods used to count passengers Treadle Mats Infrared Beams Primary and Secondary Location Technologies Used Primary Technologies GPS No Differential GPS No Signpost/Odometer Dead_Reckoning LORAN C Other Backup Technologies GPS No Differential GPS No Other No Dead_Reckoning No LORAN C Other No Dead_Reckoning No Differential GPS No No No No Differential GPS No Differential GPS No No Differential GPS No Differential GPS No No Differential GPS No No No Differential GPS No Differential G	No	0	0
Methods used to count passengers Treadle Mats No Infrared Beams No Primary and Secondary Location Technologies Used	No	0	0
Treadle Mats		4	
Infrared Beams No Primary and Secondary Location Technologies Used Primary Technologies GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Backup Technologies GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Dead_Reckoning No LORAN C No Other No Dead_Reckoning No LORAN C No Other No Other No Rumber of Vehicles with APCs Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR			
Primary and Secondary Location Technologies Used Primary Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Backup Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs NR Fixed Route Bus NR Heavy or Rapid Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR		0	
Primary Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Backup Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR		4	
GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Backup Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs Fixed Route Bus Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR			
Differential GPS			
Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Backup Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	1	3
Dead_Reckoning No LORAN C No Other No Backup Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	0	1
LORAN C	No	0	0
Other No Backup Technologies No GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs No Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	0	0
Backup Technologies GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C Other No Number of Vehicles with APCs Fixed Route Bus Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail Ferry Boat Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Remote Real-Time Monitoring NR Remote Real-Time Monitoring NR Heavy or Rapid Rail NR Heavy or Rapid Rail NR	No	0	0
GPS No Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs Incompany Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	0	0
Differential GPS No Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs Incompany Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR			
Signpost/Odometer No Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs Image: Comparition of the comparities of the comparit	No	0	0
Dead_Reckoning No LORAN C No Other No Number of Vehicles with APCs NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	0	0
LORAN C	No	0	0
Other No Number of Vehicles with APCs NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	0	1
Number of Vehicles with APCs Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	0	0
Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching NR Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	No	0	0
Heavy or Rapid Rail			
Light Rail NR Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	NR	89	168
Demand Responsive NR Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	NR	0	0
Commuter Rail NR Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	NR	0	0
Ferry Boat NR Remote Real-Time Monitoring and Computer Assisted Dispatching	NR	0	6
Remote Real-Time Monitoring and Computer Assisted Dispatching Remote Real-Time Monitoring Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	NR	0	0
Remote Real-Time Monitoring NR Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR	NR	0	0
Fixed Route Bus NR Heavy or Rapid Rail NR Light Rail NR			
Heavy or Rapid Rail NR Light Rail NR			
Light Rail NR	NR	0	8
Light Rail NR	NR	0	0
	NR	0	0
	NR	0	6
Commuter Rail NR	NR	0	35
Ferry Boat NR	NR	0	0
Automated Dispatching or Control Software	INIX	+ -	"

	Victor Valley Transit Authority		То	tals
	1999	2005	1999	2005
Fixed Route Bus	NR	NR	645	1,056
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	26	26	454	807
Commuter Rail	NR	NR	0	0
Ferry Boat	NR	NR	0	0
Coordinate or plan to coordinate travel request and vehicle				
dispatching for multiple agencies?	No		0	
Is there or will there be a Transportation Management Center				
(TMC) in the region that controls transit and highway modes?	NR		3	
Modes that TMC currently controls:				
Highways	No	No	1	2
Fixed Route Bus	No	No	0	1
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	110	110	-	Ů
Priority at Traffic Signals				
Fixed Route Bus	NR	NR	0	62
Light Rail	NR	NR	0	0
Demand Responsive	NR	NR	0	0
Ramp Meter Priority				
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	8
Heavy or Rapid Rail	NR	NR	0	0
Light Rail	NR	NR	0	0
Demand Responsive	NR	NR	0	6
Commuter Rail	NR	NR	0	0
Ferry Boat	NR	NR	0	0
ITS Standards Used Related to Transit Management			_	
TCIP On Boad Objects (TCIP-OB)	No		0	

	Victor Valley Transit Authority		Totals	
	1999	2005	1999	2005
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		1	
Would agency be willing to participate in testing of ITS Standards?	Yes		8	
Have agreements in place with other agencies to use similar hardware				
and software to aid maintenance and interoperability?	No		0	
Electronic Fare Payment				
Have full operational Electronic Fare Payment System?	Yes		10	
Methods of Fare Payment				
Stored value card with fare deducted for each trip				
Magnetic Stripe	No		1	
Smart Card	No		6	
Debit Card	No		2	
Billed by the month for trips taken				
Magnetic Stripe	No		0	
Smart Card	No		0	
Credit Card	No		1	
Monthly Pass				
Magnetic Stripe	Yes		1	
Smart Card	Yes		3	
Vehicles/Stations Equipped with Automated Payment Mechanism				
Magnetic Stripe Readers				
Fixed Route Bus Vehicles	NR	27	54	352
Heavy or Rapid Rail Stations	NR	NR	0	0
Light Rail Stations	NR	NR	0	0
Demand Responsive Vehicles	NR	NR	5	5
Commuter Rail Stations	NR	NR	0	0
Ferry Boat Landings	NR	NR	0	0
Smart Card Readers				
Fixed Route Bus Vehicles	NR	27	169	452
Heavy or Rapid Rail Stations	NR	NR	0	0

		Victor Valley Transit Authority		Totals	
	1999	2005	1999	2005	
Light Rail Stations	NR	NR	0	0	
Demand Responsive Vehicles	NR	NR	9	28	
Commuter Rail Stations	NR	NR	0	0	
Ferry Boat Landings	NR	NR	0	0	
Credit Card					
Fixed Route Bus Vehicles	NR	NR	0	8	
Heavy or Rapid Rail Stations	NR	NR	0	0	
Light Rail Stations	NR	NR	0	0	
Demand Responsive Vehicles	NR	NR	0	6	
Commuter Rail Stations	NR	NR	0	0	
Ferry Boat Landings	NR	NR	0	0	
Debit Card					
Fixed Route Bus Vehicles	NR	NR	43	359	
Heavy or Rapid Rail Stations	NR	NR	0	0	
Light Rail Stations	NR	NR	0	0	
Demand Responsive Vehicles	NR	NR	0	6	
Commuter Rail Stations	NR	NR	0	0	
Ferry Boat Landings	NR	NR	0	0	
NR: No Response					

Appendix J Transit Management Integration

	Access S	Services Incorporated	Antelope Valley Transit Authority	
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Transit operators in the region that use the same electronic payment system		•		
	None listed		None listed	
Toll operators from whom you accept electronic payment of transit				
fare through the use of ETC media	None listed		None listed	
Receiving real-time information via electronic means from others				
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions				
Receive Information	None listed	Caltrans District 7		None listed
Share Infrastructure	None listed	None listed	None listed	Caltrans District 7
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions				
		Anaheim City, Caltrans		
		District 7, Costa Mesa		
		City, Costa Mesa City,		
		Glendale City, Huntington		
		Beach City, Inglewood		
		City, Long Beach City, Los		
		Angeles City, Los Angeles County, Pasadena City,	Caltrans District 7, Los	
		Pomona City, Santa Ana	Angeles City, Los Angeles	
Receive Information	None listed	City		None listed
1.000110 milotification	110110 II3l00		- County	Caltrans District 7, Los
				Angeles City, Los Angeles
Share Infrastructure	None listed	None listed	None listed	County
Incident Management agencies from which your agency receives				,
incident severity, location, and type				
Receive Information	None listed	Caltrans District 7	FTA, MTA	None listed
Share Infrastructure	None listed	None listed	None listed	FTA, MTA

	Arc	adia Transit	Commerce City Municipal Buslines		
Agency Name	1999	2005	1999	2005	
Agency Returned Survey?	Yes		Yes		
Transit operators in the region that use the same electronic payment system	Foothill Transit, Santa Transit System, Culve	letropolitan Transp. Monica Municipal Bus Lines, Clarita, Gardena City, Norwal r City Municipal Bus Lines, ipal Buslines, Antelope Valley			
Toll operators from whom you accept electronic payment of transit					
fare through the use of ETC media	None listed		None listed		
Receiving real-time information via electronic means from others					
Freeway Management agencies from which your agency receives					
freeway travel times, speeds, and conditions					
Receive Information	None listed	Caltrans District 7	None listed	None listed	
Share Infrastructure	None listed	None listed	None listed	None listed	
Arterial Management agencies from which your agency receives					
arterial travel times, speeds, and conditions					
Receive Information	None listed	Los Angeles County	None listed	None listed	
Share Infrastructure	None listed	None listed	None listed	None listed	
Incident Management agencies from which your agency receives	TTOTIC HOLOG	13010 llotod	110/10 libtod	Tione notes	
incident severity, location, and type					
Receive Information	None listed	Caltrans District 7	None listed	None listed	
Share Infrastructure	None listed	None listed	None listed	None listed	

	Corona	City Dial-A-Ride	La M	lirada City Transit
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Transit operators in the region that use the same electronic payment system				•
	None listed		None listed	
Toll operators from whom you accept electronic payment of transit				
fare through the use of ETC media	None listed		None listed	
Receiving real-time information via electronic means from others				
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions				
Receive Information	Caltrans District 8	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions				
Receive Information	Caltrans District 8	None listed	None listed	None listed
Receive Illioitiation	Califails District 8	ivone listed	inone listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Incident Management agencies from which your agency receives				113.13 11313
incident severity, location, and type				
Receive Information	Caltrans District 8	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

	Laguna Beach	Municipal Transit Lines	Long Beach Public Transportation Company		
Agency Name	1999	2005	1999	2005	
Agency Returned Survey?	Yes		Yes		
Transit operators in the region that use the same electronic payment system					
				Bus Lines, Culver City Municipa	
				nica Municipal Bus Lines,	
	None listed		Foothill Transit, MTA		
Toll operators from whom you accept electronic payment of transit					
fare through the use of ETC media	None listed		None listed		
Receiving real-time information via electronic means from others					
Freeway Management agencies from which your agency receives					
freeway travel times, speeds, and conditions					
Receive Information	None listed	None listed	None listed	None listed	
Share Infrastructure	None listed	None listed	None listed	None listed	
Arterial Management agencies from which your agency receives					
arterial travel times, speeds, and conditions					
Receive Information	Caltrans District 12	Caltrans District 12	None listed	None listed	
Neceive information	Califalis District 12	Califalis District 12	None listed	None listed	
Share Infrastructure	None listed	None listed	None listed	None listed	
Incident Management agencies from which your agency receives			,		
incident severity, location, and type					
Receive Information	Caltrans District 12	Caltrans District 12	None listed	None listed	
Share Infrastructure	None listed	None listed	None listed	None listed	

	Los	Angeles City	Mon	Montebello Bus Lines		
Agency Name	1999	2005	1999	2005		
Agency Returned Survey?	Yes		Yes			
Transit operators in the region that use the same electronic payment system						
			Culver City Municina	l Bus Lines, Norwalk Transit		
	None listed			ca Municipal Bus Lines, Foothill		
Toll operators from whom you accept electronic payment of transit	TYONG NOIGG		Transit			
fare through the use of ETC media	None listed		None listed	-		
Receiving real-time information via electronic means from others	. TOTTO HOLOG		. 10110 110100			
Freeway Management agencies from which your agency receives						
freeway travel times, speeds, and conditions						
Receive Information	None listed	None listed	None listed	Gateway Cities		
Share Infrastructure	None listed	None listed	None listed	Gateway Cities		
Arterial Management agencies from which your agency receives						
arterial travel times, speeds, and conditions						
Receive Information	None listed	None listed	None listed	Gateway Cities		
Share Infrastructure	None listed	None listed	None listed	Gateway Cities		
Incident Management agencies from which your agency receives						
incident severity, location, and type						
Receive Information	None listed	None listed	None listed	Gateway Cities		
Share Infrastructure	None listed	None listed	None listed	Gateway Cities		

	Norwa	alk Transit System	Orange County Transportation Authority		
Agency Name	1999	2005	1999	2005	
Agency Returned Survey?	Yes		Yes		
Transit operators in the region that use the same electronic payment system				•	
	Santa Monica Munici	pal Bus Lines, Foothills Transit	None listed		
Toll operators from whom you accept electronic payment of transit					
fare through the use of ETC media	None listed		None listed		
Receiving real-time information via electronic means from others					
Freeway Management agencies from which your agency receives					
freeway travel times, speeds, and conditions					
Receive Information	None listed	None listed	None listed	Caltrans District 12	
Share Infrastructure	None listed	None listed	None listed	None listed	
Arterial Management agencies from which your agency receives					
arterial travel times, speeds, and conditions					
				Anaheim City, Caltrans	
				District 12, Garden Grove City, Huntington Beach	
Receive Information	None listed	None listed	None listed	City, Santa Ana City	
1\cceive iiiioiiiauoii	NOTIC HOLEU	TVOTTE TISLEU	NOTIC HOLEU	Oity, Gairta Aira Oity	
Share Infrastructure	None listed	None listed	None listed	None listed	
Incident Management agencies from which your agency receives					
incident severity, location, and type					
Receive Information	None listed	None listed	None listed	Caltrans District 12	
Share Infrastructure	None listed	None listed	None listed	None listed	

	Simi	Valley Transit	South	South Coast Area Transit		
Agency Name	1999	2005	1999	2005		
Agency Returned Survey?	Yes		Yes			
Transit operators in the region that use the same electronic payment system		•		•		
	South Coast Area Tran	sit, Ventura Intercity	None listed			
Toll operators from whom you accept electronic payment of transit						
fare through the use of ETC media	None listed		None listed			
Receiving real-time information via electronic means from others						
Freeway Management agencies from which your agency receives						
freeway travel times, speeds, and conditions						
Receive Information	None listed	None listed	None listed	None listed		
Share Infrastructure	None listed	None listed	None listed	None listed		
Arterial Management agencies from which your agency receives						
arterial travel times, speeds, and conditions						
Receive Information	None listed	None listed	None listed	None listed		
1000IVO IIIOITIQUOII	140HC IIStCG	14011C II3CCC	None listed	TOTIC listed		
Share Infrastructure	None listed	None listed	None listed	None listed		
Incident Management agencies from which your agency receives						
incident severity, location, and type						
Receive Information	None listed	None listed	None listed	None listed		
Share Infrastructure	None listed	None listed	None listed	None listed		

	Southern Califo	nia Regional Rail Authority	Torrance City Transit System	
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Yes		Yes	
Transit operators in the region that use the same electronic payment system		•		•
	None listed		South Coast Area Tr	ansit _
Toll operators from whom you accept electronic payment of transit				
fare through the use of ETC media	None listed		None listed	
Receiving real-time information via electronic means from others				
Freeway Management agencies from which your agency receives				
freeway travel times, speeds, and conditions				
Receive Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Arterial Management agencies from which your agency receives				
arterial travel times, speeds, and conditions				
Description Information	Nama lintad	Nama lintad	Nama liatad	None listed
Receive Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed
Incident Management agencies from which your agency receives	140110 IIOLOG	Tione notes	TTOTIC HOLOG	TOTIC IIOCCU
incident severity, location, and type				
Receive Information	None listed	None listed	None listed	None listed
Share Infrastructure	None listed	None listed	None listed	None listed

	Victor Va	lley Transit Authority
Agency Name	1999	2005
Agency Returned Survey?	Yes	
Fransit operators in the region that use the same electronic payment system		•
	None listed	
Toll operators from whom you accept electronic payment of transit		
fare through the use of ETC media	None listed	
Receiving real-time information via electronic means from others		
Freeway Management agencies from which your agency receives		
freeway travel times, speeds, and conditions		
Receive Information	None listed	None listed
Share Infrastructure	None listed	None listed
Arterial Management agencies from which your agency receives		
arterial travel times, speeds, and conditions		
Receive Information	None listed	None listed
Share Infrastructure	None listed	None listed
Incident Management agencies from which your agency receives	None listed	INOTIC IISICU
incident severity, location, and type		
Receive Information	None listed	None listed
Share Infrastructure	None listed	None listed

Appendix K
Transit Management Information Collection and Dissemination

	Access Services Incorporated		Antelope Valley	/ Transit Authority
Agency Name	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				
	ND	ND	ND	ND
Technologies employed by other organization receiving your data	NR	NR	NR	NR
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				

	Access Service	es Incorporated	Antelope Valley Transit Authority	
Agency Name	1999	2005	1999	2005
Collected by your agency				
		Weather conditions, Trip		
		itinerary planning records,		Weather conditions, Trip
		Vehicle monitoring status,		itinerary planning records,
		Road conditions,		Vehicle monitoring status,
		Emergency vehicle signal		Road conditions, Transit
		preemption, Vehicle time		vehicle signal priority,
		and location, Route		Vehicle time and location,
		designations (snow		Route designations (snow
		emergency, etc), Transit		emergency, etc), Current
		operations coordination		roadway work zones for
		information, Incidents,		transit, Scheduled
		Current roadway work		roadway work zones for
		zones for transit,		transit, Intermodal (air,
		Scheduled roadway work	Dagage and a suit	rail, water) conditions,
	Doggonger count	zones for transit,	Passenger count,	Emergency/evacuation
	Passenger count, Passenger information	Intermodal (air, rail, water) conditions, Highway	(e.g., surveys, O/D),	routes and procedures, Highway operations
	(e.g., surveys, O/D),	operations coordination	Transit operations	coordination information,
	Emergency/evacuation	information, Transit	coordination information.	Emergency vehicle signal
	routes and procedures	vehicle signal priority	Incidents	preemption

		es Incorporated		Transit Authority
Agency Name	1999	2005	1999	2005
Archived by your agency			Passenger count, Passenger information (e.g., surveys, O/D), Transit operations coordination information,	Weather conditions, Trip itinerary planning records, Vehicle monitoring status, Road conditions, Transit vehicle signal priority, Vehicle time and location, Route designations (snow emergency, etc), Current roadway work zones for transit, Scheduled roadway work zones for transit, Intermodal (air, rail, water) conditions, Emergency/evacuation routes and procedures, Highway operations coordination information, Emergency vehicle signal
	NR	NR	Incidents	preemption

	Access Service	es Incorporated	Antelope Valley	Transit Authority
Agency Name	1999	2005	1999	2005
Transferred to another agency by your agency			Passenger count, Passenger information (e.g., surveys, O/D), Transit operation	Weather conditions, Trip itinerary planning records, Vehicle monitoring status, Road conditions, Transit vehicle signal priority, Vehicle time and location, Route designations (snow emergency, etc), Current roadway work zones for transit, Scheduled roadway work zones for transit, Intermodal (air, rail, water) conditions, Emergency/evacuation routes and procedures, Highway operations, Emergency, vehicle signal
	NR	NR	coordination information, Incidents	Emergency vehicle signal preemption
Importance of making information available to the public				
Ranked High	Vehicle monitoring status, Transit operations coordina Emergency/evacuation rou	ation information,	Weather conditions, Passisurveys, O/D), Vehicle moconditions, Vehicle time at designations (snow emergoperations coordination in Current roadway work zonroadway work zones for trwater) conditions, Emergeprocedures, Highway oper information	nitoring status, Road nd location, Route lency, etc), Transit formation, Incidents, les for transit, Scheduled ansit, Intermodal (air, rail, ency/evacuation routes and
Ranked Medium	Weather conditions, Passenger count, Trip itinerary planning records, Passenger information (e.g., surveys, O/D), Road conditions, Emergency vehicle signal preemption, Route designations (snow emergency, etc), Incidents, Intermodal (air, rail, water conditions, Transit vehicle signal priority		Passenger count, Trip itinerary planning records, r) Transit vehicle signal priority, Emergency vehicle signal preemption	

	Access Services Incorporated		Antelope Valley Transit Authority	
Agency Name	1999	2005	1999	2005
Ranked Low	Current roadway work zones for transit, Scheduled roadway work zones for transit, Highway operations coordination information		NR	
Groups that make requests for the data			Advanced Traveler Information Systems (ATIS) providers, Consultants, MPOs, Media (I.e., TV stations, radio stations), Federal DOT personnel,	
What is the data used for?	Federal DOT personnel, State DOT personnel		State DOT personnel, Universities	
			Dissemination to the public, Roadway impact analysis, Planning, Construction impact determination, Traffic analysis	

	According Transpire		Commerce City Municipal Buslines		
Anna v. Nama	Arcadia Transit 1999 2005		Commerce City 1999	Municipal Buslines 2005	
Agency Name	1999	2005	1999	2005	
Agency Returned Survey?	Yes		Yes		
Methods used to disseminate transit information to the public	163		163		
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	INIX	INIX	INIX	INIX	
Thou all of deficit out of deficition of all the departure all the					
	NR	NR	NR	NR	
Technologies employed by other organization receiving your data	INIX	INIX	INIX	INIX	
Transit routes, schedules and fares					
Deal time transit calculus adhagenes as aminal and departure times	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					

			T	
		- 4		4 15
	Arcadia	Transit	Commerce City I	Municipal Buslines
Agency Name	1999	2005	1999	2005
Collected by your agency				
		Transit operations		
		coordination information,		
		Scheduled roadway work		
		zones for transit,		
		Incidents, Road		
			Passenger information	
	Passenger count, Vehicle		(e.g., surveys, O/D),	
	time and location	itinerary planning records	Passenger count	NR

Agency Name	Arcad	Arcadia Transit		Commerce City Municipal Buslines	
	1999	2005	1999	2005	
Archived by your agency					
	NR	NR	NR	NR	

	Arcadia Transit			Municipal Buslines
Agency Name	1999	2005	1999	2005
Transferred to another agency by your agency				
	NR	NR	NR	NR
Importance of making information available to the public				
Ranked High				
	Passenger information (e.g	L SURVOVS O/D)	NR	
Ranked Medium	i assenger information (e.g	j., Julyeys, O/D)	INIX	
	Tueseit on continue or and in the information			
	Transit operations coordination information, Scheduled roadway work zones for transit, Incidents,			
	Road conditions, Vehicle n	nonitoring status, Trip		
	itinerary planning records,	Passenger count	NR	

	Arcadia Transit		Commerce City Municipal Buslines		
Agency Name	1999	2005	1999	2005	
Ranked Low			•		
	L				
	Vehicle time and location		NR		
Groups that make requests for the data					
	MPOs, Federal DOT persor	nnel, State DOT personnel,	Consultants, Federal DOT	personnel, State DOT	
	Universities		personnel		
What is the data used for?					
			Dissemination to the public, Roadway impact		
	[analysis, Planning, Construction impact		
	Dissemination to the public,	, Planning	determination, Traffic ana	lysis	

	0 00	Corona City Dial-A-Ride		O'' T ''
		T		City Transit
Agency Name	1999	2005	1999	2005
Ananay Datumad Cumay 2				
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, Cell		
	Facsimile, E-mail or other direct PC communication,	phone/data, In-vehicle		
	Internet Web Sites,	navigation systems, Kiosks, Dedicated cable		
	Telephone System	TV	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			1111	T T T T T T T T T T T T T T T T T T T
	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	www.scag.ca.gov/transit			
	www.scag.ca.gov/transit www.metrolinktrains.com			
			NR	
Telephone system for reporting transit information to the public				
	000 704 7000 Dial A Dida City of Cara			
	909-734-7220- Dial-A-Ride City of Corona 909-684-0850- Regional Riverside Transit Agency		NR	
Organizations your agency sends information for dissemination to the public	Jus-004-0000- Negiuliai R	averside Transit Agency	INIX	
gamean your agoney condo information for allocalimation to the public				
	all of those mentioned in above		NR	
Data collected, archived, and/or transferred to another agency				

			I		
	Corona City	Corona City Dial-A-Ride		La Mirada City Transit	
Agency Name	1999	2005	1999	2005	
Collected by your agency					
		Transit operations			
		coordination information,			
		Current roadway work	Incidente Trip itin como		
			Incidents, Trip itinerary		
		vehicle signal priority,	planning records,		
	l	Passenger count, Vehicle	Passenger count, Vehicle		
	NR	time and location	time and location	NR	

	Corona C	Corona City Dial-A-Ride		La Mirada City Transit	
Agency Name	1999	2005	1999	2005	
Archived by your agency					
	NR	NR	NR	NR	

	Corona City	Corona City Dial-A-Ride		City Transit
Agency Name	1999	2005	1999	2005
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				
	Transit operations coordinate	ation information, Current		
	roadway work zones for tra	ansit, Transit vehicle signal	December count Vahiala	time and location
	priority, Passenger count, Vehicle time and location Passenger count, Vehicle time and location			

	Corona City Dial-A-Ride		La Mirada City Transit	
Agency Name	1999	1999 2005		2005
Ranked Low				•
	NR		Incidents, Trip itinerary planning records	
Groups that make requests for the data				
	Consultants, MPOs, Federal DOT personnel, State			
	DOT personnel	– от ротовить, стать	NR	
What is the data used for?				
	Dissemination to the public,	, Incident detection		
	algorithm development, Tra		NR	

	Laguna Beach	Municipal Transit Lines	Long Beach Public	Transportation Company
Agency Name	1999	2005	1999	2005
Annual Debugged Company				
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	Kiosks, Telephone System	Internet Web Sites
Real-time transit schedule adherence or arrival and departure times				
To be a low in a complete of the cotton are a single to a constitution and the	NR	NR	NR	Kiosks, Internet Web Sites, Telephone System
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	NR	NR	Telephone System	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		website is still being de	veloped
Telephone system for reporting transit information to the public				
	NR		Long Beach Transit Info	ormation 562-591-2301
Organizations your agency sends information for dissemination to the public				00-266-6883, SCAG Transtar
	NR		Information System	
Data collected, archived, and/or transferred to another agency				

			ı	
	Laguna Beach Mui	nicipal Transit Lines	Long Beach Public Tr	ansportation Company
Agency Name	1999	2005	1999	2005
Collected by your agency				
	Transit operations			
	coordination information,	Transit operations		
	Highway operations	coordination information,		
	coordination information,	Highway operations		
	Emergency/evacuation	coordination information,		
	routes and procedures,	Emergency/evacuation		
	, , , ,	routes and procedures,		
	conditions, Scheduled	Intermodal (air, rail, water)		
	roadway work zones for	conditions, Scheduled		
	transit, Current roadway	roadway work zones for		
	work zones for transit,	transit, Current roadway		
			Incidents, Passenger	
	information (e.g., surveys,	Incidents, Passenger		Passenger count, Vehicle
	O/D), Passenger count	count	O/D)	time and location

		nicipal Transit Lines	Long Beach Public Transportation Company		
Agency Name	1999	2005	1999	2005	
Archived by your agency					
	Transit operations coordina	Transit operations coordina	Incidents, Passenger inforr	NR	

	Laguna Beach Mu	Laguna Beach Municipal Transit Lines		ansportation Company
Agency Name	1999	2005	1999	2005
Transferred to another agency by your agency				
	Transit operations	Transit operations		
	coordination information,	coordination information,		
learnest and a state of the sta	Passenger count	Passenger count	NR	Vehicle time and location
Importance of making information available to the public Ranked High				
Ranked right				
	Transit operations coordinate			
	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		Passenger count, Vehicle	time and location
Ranked Medium				
	Passenger information (e.g.	g., surveys, O/D)	Incidents	

	Laguna Beach Municipal Transit Lines 1999 2005		Long Beach Public Transportation Company		
Agency Name			1999	2005	
Ranked Low					
	NR Pas		Passenger information (e.g., surveys, O/D)		
Groups that make requests for the data					
	MPOs, Federal DOT persor	MPOs, Federal DOT personnel, State DOT personnel M		nnel	
What is the data used for?					
	Dissemination to the public	, Planning	Dissemination to the public	c, Planning	

		Los Angeles City		5 1:
				o Bus Lines
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Vac		Vaa	
Methods used to disseminate transit information to the public	Yes		Yes	
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares				
Transit routes, seriedates and fales				
	Telephone System	Internet Web Sites	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				
	Telephone System	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	relephone dystem	THE	THE	THE
	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			323-887-4545-General Fix	red Route
			323-887-4646-Demand Re	
	NR		213-922-7035 MTA General Information	
Organizations your agency sends information for dissemination to the public				
				ppolitan Transportation
	Los Angeles County Metropolitan Transit Authority		Authority -General Informa	ation
Data collected, archived, and/or transferred to another agency	and the second s			

	1				
	Los Ang	Los Angeles City		Montebello Bus Lines	
Agency Name	1999	2005	1999	2005	
Collected by your agency					
			Intermodal (air, rail, water)	Intermodal (air, rail, water)	
				conditions, Incidents,	
	Passenger information		Passenger information	Passenger information	
	(e.g., surveys, O/D),		(e.g., surveys, O/D),	(e.g., surveys, O/D),	
	Passenger count	NR	Passenger count	Passenger count	

	Los And	Los Angeles City Montebel		
Agency Name	1999	2005	1999	2005
Archived by your agency				
	NR	NR	Intermodal (air, rail, water)	Intermedal (air rail wate

	Los Ang	eles City	Montebello	Bus Lines
Agency Name	1999	2005	1999	2005
Transferred to another agency by your agency	1999		Intermodal (air, rail, water) conditions, Incidents,	Intermodal (air, rail, water) conditions, Incidents,
	NR		Passenger information (e.g., surveys, O/D),	Passenger information (e.g., surveys, O/D), Passenger count
Importance of making information available to the public	IWA	IWA	. accorded count	. accorder count
Ranked High				
	Passenger count		Intermodal (air, rail, water) Passenger information (e.g Passenger count	conditions, Incidents, g., surveys, O/D),
Ranked Medium	Passenger information (e.g		NR	

	Los Ange	les City	Montebe	llo Bus Lines
Agency Name	1999	2005	1999	2005
Ranked Low				•
	NR NR			
Groups that make requests for the data				
	Local Funding Provider and City Staff, Consultants, Cor		Consultants, MPOs, Federal DOT personnel, State	
	•		DOT personnel, Universities	
What is the data used for?				
	Dissemination to the public,	Planning, Do not know	Dissemination to the publ	ic, Planning

		ansit System		y Transportation Authority
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	\ <u>\</u>		\ <u>'</u>	
Methods used to disseminate transit information to the public	Yes		Yes	
-				
Technologies your agency uses to disseminate: Transit routes, schedules and fares				
Transit routes, scriedules and rares	Kiosks, Internet Web Sites, Telephone System	NR	NR	Audible Enunciators, Variable Message Signs (in vehicle), Kiosks, Pagers or personal data assistants, Internet Web Sites, Telephone System
Real-time transit schedule adherence or arrival and departure times				
	Kiosks	NR	NR	Audible Enunciators, Variable Message Signs (in vehicle), Kiosks, Pagers or personal data assistants, Internet Web Sites, Telephone System
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares				
	Kiosks, Internet Web Sites	NR	NR	Kiosks, Pagers or personal data assistants, Internet Web Sites, Telephone System
Real-time transit schedule adherence or arrival and departure times	N. D.		N.S.	Kiosks, Pagers or personal data assistants, Internet Web Sites,
Internet web site reporting transit routes, schedules and fare, etc.	NR	NR	NR	Telephone System
internet web site reporting transit routes, scriedules and rare, etc.	NR		www.octa.net	
Telephone system for reporting transit information to the public				
	NR		714.636.RIDE (7432)	
Organizations your agency sends information for dissemination to the public	INIX		114.000.NIDE (1432)	
	NR		Southern California A	ssociation of Government
Data collected, archived, and/or transferred to another agency	IVIX		Coullient Camornia A	3300iation of Government

	1			
		Norwalk Transit System		
				nsportation Authority
Agency Name	1999	2005	1999	2005
Collected by your agency				
	Transit operations			
	coordination information,			
	Scheduled roadway work			
	zones for transit, Current			
	roadway work zones for			Incidents, Passenger
	transit, Incidents,	Intermodal (air, rail, water)		information (e.g., surveys,
	Passenger information	conditions, Weather		O/D), Trip itinerary
	(e.g., surveys, O/D),	conditions, Road		planning records,
	Passenger count, Vehicle	conditions, Trip itinerary		Passenger count, Vehicle
	time and location		NR	time and location
	ume and location	planning records	INIX	unie and iocalion

	Norwalk Tra	Norwalk Transit System		Orange County Transportation Authority	
Agency Name	1999	2005	1999	2005	
Archived by your agency					
	Incidents, Passenger inforr	NR	NR	Incidents, Passenger infor	

		ansit System		nsportation Authority	
Agency Name	1999	2005	1999	2005	
Transferred to another agency by your agency				Trip itinerary planning	
	NR	NR	NR	records, Vehicle time and location	
Importance of making information available to the public					
Ranked High Ranked Medium	Transit operations coordina Intermodal (air, rail, water) roadway work zones for tra zones for transit, Incidents, (e.g., surveys, O/D), Passe and location	conditions, Scheduled insit, Current roadway work Passenger information	Trip itinerary planning reco	ords	
	Trip itinerary planning reco	rds	Vehicle time and location		

	Norwalk Tra	ansit System	Orange County Transportation Authority	
Agency Name	1999	1999 2005		2005
Ranked Low				
			Incidents, Passenger information (e.g., surveys, O/D), Passenger count	
Groups that make requests for the data				
	Consultants, MPOs, Federa	al DOT personnel, State	Consultants, MPOs, Feder	al DOT personnel, State
	DOT personnel, Universitie	DOT personnel, Universities		•
What is the data used for?				
	Planning		Planning	

	0: :://	Simi Valley Transit		
				t Area Transit
Agency Name	1999	2005	1999	2005
Agency Returned Survey?	Vac		Vac	
Methods used to disseminate transit information to the public	Yes		Yes	
Technologies your agency uses to disseminate:				
Transit routes, schedules and fares				
Transit routes, scriedules and rates	Variable Message Signs (in vehicle), E-mail or other direct PC communication, Internet Web Sites, Telephone System	NR	Variable Message Signs (in vehicle), E-mail or other direct PC communication, Internet Web Sites, Telephone System	NR
Real-time transit schedule adherence or arrival and departure times	- Jotom	IVIX	o you on the	IVIC
	NR	NR	NR	NR
Technologies employed by other organization receiving your data				
Transit routes, schedules and fares	Telephone System	NR	NR	NR
Real-time transit schedule adherence or arrival and departure times	r eleptione eyetem	IVIX	III	THE
	NR	NR	NR	NR
Internet web site reporting transit routes, schedules and fare, etc.	THE STATE OF THE S	THE	III	itit
	NR		NR	
Telephone system for reporting transit information to the public				
	NR I		NR	
Organizations your agency sends information for dissemination to the public				
	NR		NR	
Data collected, archived, and/or transferred to another agency				

	Simi Valley Transit			South Coast Area Transit	
Agency Name	1999	2005	1999	2005	
Collected by your agency					
				Passenger information	
				(e.g., surveys, O/D),	
	NR	NR	Passenger count	Passenger count	

	Simi V	Simi Valley Transit		South Coast Area Transit	
Agency Name	1999	2005	1999	2005	
Archived by your agency					
	NR	NR	NR	NR	

	Simi Vall	ey Transit	South Coast	Area Transit
Agency Name	1999	2005	1999	2005
Transferred to another agency by your agency				
	NR	Passenger count, Vehicle time and location	NR	NR
Importance of making information available to the public	TWX		TWY	TWX
Ranked High				
	Passenger count, Vehicle t	ime and location	NR	
Ranked Medium	-			
	NR		Passanger information (a.c.	a surveye O/D)
	INL		Passenger information (e.g	J., surveys, O/D)

	Simi Valley Transit		South Coast Area Transit	
Agency Name	1999	2005	1999	2005
Ranked Low				•
	ND		Passenger count	
	NR	NR Pa		
Groups that make requests for the data				
	Federal DOT personnel		Consultants	
What is the data used for?				
	Do not know		Planning	

		Southern California Regional Rail Authority		Torrance City Transit System	
Agency Name	1999	2005	1999	2005	
A D 1 10 0					
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,	Kiosks, Internet Web	
	Kiosks, Internet Web		Telephone System,	Sites, Telephone System,	
	Sites, Telephone System	NR	Dedicated cable TV	Dedicated cable TV	
Real-time transit schedule adherence or arrival and departure times					
		Audible Enunciators,	Audible Enunciators, Internet Web Sites,		
		Monitors/VMS (not in	Telephone System,	Audible Enunciators,	
	NR	vehicle)	Dedicated cable TV	Kiosks	
Technologies employed by other organization receiving your data		,			
Transit routes, schedules and fares					
Deal time transit ask adula adkaranca ar amiral and danartina times	NR	NR	Telephone System	Telephone System	
Real-time transit schedule adherence or arrival and departure times					
	NR	NR	Telephone System	Telephone System	
Internet web site reporting transit routes, schedules and fare, etc.					
	NR		www.torrnet.com		
Telephone system for reporting transit information to the public					
	NR 1-8		1-800-COMMUTE		
Organizations your agency sends information for dissemination to the public	INK I-80U-CUMMUTE				
3 3 3 3 3 3 3 3 3 3				ciation of Governments, LA	
	County Metropolitan Transportation Agency, oth		sportation Agency, other		
Data callegated analysis of analysis to analysis and the second second	NR		community organizations		
Data collected, archived, and/or transferred to another agency					

	Southern California Regional Rail Authority		Torrance City Transit System	
Agency Name	1999	2005	1999	2005
Collected by your agency			zones for transit, Current roadway work zones for transit, Passenger information (e.g., surveys, O/D), Passenger count,	Transit operations coordination information, Scheduled roadway work zones for transit, Current roadway work zones for transit, Passenger information (e.g., surveys, O/D), Passenger count,
	NR	NR	Vehicle time and location	Vehicle time and location

	Southern Californ	ia Regional Rail Authority	Torrance City Tr	ransit System
gency Name	1999	2005	1999	2005
Archived by your agency				
	NR	NR N	R N	IR .

	Southern California F	Regional Rail Authority	Torrance City	Transit System
Agency Name	1999	2005	1999	2005
Transferred to another agency by your agency				
	NR	NR	NR	NR
Importance of making information available to the public				
Ranked High				
			Transit operations coordinate	ation information, Vehicle
	NR		time and location	
Ranked Medium				
			Scheduled roadway work a	zones for transit, Current
	NR		roadway work zones for tra	ansit

	Southern California Regional Rail Authority		Torrance City Transit System	
Agency Name	1999	2005	1999	2005
Ranked Low				
			Passenger information (e.g., surveys, O/D), Passenger count	
Groups that make requests for the data				
			Consultants, MPOs, Federal DOT personnel,	
What is the data used for?	NR		Universities	
Trink to the data dood for t				
	NR		Funding Oversight	

	Victor Va	Illey Transit Authority
Agency Name	1999	2005
Agency Returned Survey?	Yes	
Methods used to disseminate transit information to the public	res	
Technologies your agency uses to disseminate:		
Transit routes, schedules and fares		
	NR	NR
Real-time transit schedule adherence or arrival and departure times		
Technologies employed by other organization receiving your data	NR	NR
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.	ND	
Telephone system for reporting transit information to the public	NR	
	NR	
Organizations your agency sends information for dissemination to the public		
	NR	
Data collected, archived, and/or transferred to another agency		

	Victor Valley	Victor Valley Transit Authority		
Agency Name	1999	2005		
Collected by your agency				
	NR	NR		

	Victor Valle	y Transit Authority
Agency Name	1999	2005
Archived by your agency		
	NR	NR

	Viotor Valla	/ Transit Authority
Agency Name		/ Transit Authority
Agency Name Transferred to another agency by your agency	1999	2005
	NR	NR
Importance of making information available to the public Ranked High		
	NR	
Ranked Medium	NR	

	Victor Valle	Victor Valley Transit Authority						
Agency Name	1999	2005						
Ranked Low								
	NR							
Groups that make requests for the data								
	NR							
What is the data used for?								
	NR							

Appendix L Emergency Management

	Total Vehicles		Navigation Capabilities		AVL		CAD		CAD Equipped with Mobile Data Terminal		Vehicles Equipped with Preemption		Formal Program	Info to other	
Agency Name	1999	2005	1999	2005	1999	2005	1999	2005	1999	2005	1999	2005	Participate in Formal Incident Mgt Program	Send Incident Info to other agencies	List of agencies receiving data
Anaheim Police Department			0	NR		NR	105	111	50				Yes	Yes	Federal Bureau of Investigation, Federal Emergency Management Agency, Office of Emergency Services, Department of Transportation, County Operating Area Office
Caltrans District 7	36	36	0	0	0	0	0	0	0	-	0	0	Yes	No	None listed
Costa Mesa Police Department	104	110	0	0	0	90	104	110	83	90	0	0	Yes	No	None listed
Garden Grove City Fire & EMS Department Garden Grove City Police Department	12 100	12 NR	0	0 NR	0	0 NR	12 45	12 NR	0 45				No Yes	Yes No	Metro Net Fire Dispatch None listed
Glendale City Fire Department	24	26	0	14	0	26	24	26	24				Yes	No	None listed
Glendale City Police Department			0	0	0	0	80	85	35				Yes	No	None listed
Inglewood City Fire Department		NR	0	NR	0	NR	18	NR	6	NR	0	NR	No	No	None listed
Pomona Police Department	45	50	0	0	0	0	45	50	45				Yes	Yes	None listed
Riverside Police Department	400	NR	0	NR	0	NR	400	NR	180	NR	0	NR	Yes	NR	None listed
San Bernardino County Police Department	114	114	0	0	0	0	104	104	104	_			Yes	No	None listed
Santa Ana City Police Department	224	235	0	0	0	0	147	153	127	133	0	0	Yes	No	None listed