

Performance Measure Summary - Medium Areas - Average

There are several inventory and performance measures listed in the pages of this Urban Area Report for the years from 1982 to 2010. There is no single performance measure that experts agree "says it all." A few key points should be recognized by users of the Urban Mobility Report data.

Use the Trends – The multi-year performance measures are better indicators, in most cases, than any single year. Examining a few measures over many years reduces the chance that data variations or the estimating procedures may have caused a "spike" in any single year. (*5 years is 5 times better than 1 year*).

Use several measures – Each performance measure illustrates a different element of congestion. (*The view is more interesting from atop several measures*).

Compare to similar regions – Congestion analyses that compare areas with similar characteristics (for example population, growth rate, road and public transportation system design) are usually more insightful than comparisons of different regions. (*Los Angeles is not Peoria*).

Compare ranking changes and performance measure values – In some performance measures a small change in the value may cause a significant change in rank from one year to the next. This is the case when there are several regions with nearly the same value. (*15 hours is only 1 hour more than 14 hours*).

Consider the scope of improvement options – Any improvement project in a corridor within most of the regions will only have a modest effect on the regional congestion level. (*To have an effect on areawide congestion, there must be significant change in the system or service*).

Performance Measures and Definition of Terms

Travel Time Index – A measure of congestion that focuses on each trip and each mile of travel. It is calculated as the ratio of travel time in the peak period to travel time in free-flow. A value of 1.30 indicates a 20-minute free-flow trip takes 26 minutes in the peak.

Peak Commuters – Number of travelers who begin a trip during the morning or evening peak travel periods (6 to 10 a.m. and 3 to 7 p.m.). "Commuters" are private vehicle users unless specifically noted.

Annual Delay per Commuter – A yearly sum of all the per-trip delays for those persons who travel in the peak period (6 to 10 a.m. and 3 to 7 p.m.). This measure illustrates the effect of the per-mile congestion as well as the length of each trip.

Total Delay – The overall size of the congestion problem. Measured by the total travel time above that needed to complete a trip at free-flow speeds. The ranking of total delay usually follows the population ranking (larger regions usually have more delay).

Free-Flow Speeds -- These values are derived from overnight speeds in the INRIX speed database. They are used as the national comparison thresholds. Other speed values may be appropriate for urban project evaluations or sub-regions studies.

Excess Fuel Consumed – Increased fuel consumption due to travel in congested conditions rather than free-flow conditions.

Public Transportation – Regular route service from all public transportation providers in an urban area.

Operations Treatments – Freeway incident management, freeway ramp metering, arterial street signal coordination and arterial street access management.

Congestion Cost – Value of travel delay for 2010 (estimated at \$16.30 per hour of person travel and \$88.12 per hour of truck time) and excess gasoline consumption (passenger vehicles) and diesel (trucks) estimated using state average cost per gallon.

Urban Area – The developed area (population density more than 1,000 persons per square mile) within a metropolitan region. The urban area boundaries change frequently (every year for most growing areas). The annual change in miles traveled and lane-miles, therefore, includes both new travel and roads due to growth and travel and roads that were previously in areas designated as rural.

Number of Rush Hours – Time when the road system might have congestion.

The Mobility Data for Medium Areas - Average

Inventory Measures	2010	2009	2008	2007	2006	2005
Urban Area Information						
Population (1000s)	669	662	655	647	654	641
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	373	367	362	356	358	348
Commuters (1000s)	349	344	339	333	335	326
Freeway						
Daily Vehicle-Miles of Travel (1000s)	5,476	5,410	5,515	5,611	5,659	5,559
Lane-Miles	445	442	442	439	444	439
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	6,344	6,275	6,370	6,427	6,448	6,303
Lane-Miles	1,391	1,382	1,382	1,365	1,357	1,335
Public Transportation						
Annual Psgr-Miles of Travel (millions)	40.7	41.0	42.6	41.2	48.9	43.3
Annual Unlinked Psgr Trips (millions)	9.3	9.4	9.7	9.4	10.2	9.8
Cost Components						
Value of Time (\$/hour)	16.30	16.01	16.10	15.47	15.06	14.58
Commercial Cost (\$/hour)	88.12	89.75	81.52	82.56	80.43	78.05
Gasoline (\$/gallon)	2.75	2.30	3.46	3.04	2.67	2.33
Diesel (\$/gallon)	3.01	2.63	4.22	3.47	2.90	2.57
System Performance	2010	2009	2008	2007	2006	2005
Congested Travel (% of peak VMT)	37	37	34	37	37	37
Congested System (% of lane-miles)	35	35	32	35	35	35
Congested Time (number of "Rush Hours")	2.91	2.91	2.96	3.24	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	2,216	2,334	2,298	2,775	2,829	2,697
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	5	5	5	7	7	6
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	9,513	9,494	9,027	10,221	10,548	10,055
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	21	21	21	24	25	24
Rank	--	--	--	--	--	--
Travel Time Index						
Rank	1.11	1.11	1.10	1.12	1.12	1.12
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	1.16	1.15	1.15	1.18	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	42	44	39	44	--	--
Rank	18,478	18,228	17,981	17,738	--	--
Congestion Cost						
Total Cost (\$ millions)	193	191	181	199	197	180
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	426	429	418	464	608	567
Rank	--	--	--	--	--	--

Note: Zeros in the table reflect values less than 0.5.

The Mobility Data for Medium Areas - Average

Inventory Measures	2004	2003	2002	2001	2000	1999
Urban Area Information						
Population (1000s)	630	618	607	596	585	574
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	340	332	322	312	303	293
Commuters (1000s)	319	311	302	293	284	275
Freeway						
Daily Vehicle-Miles of Travel (1000s)	5,429	5,238	5,079	4,894	4,754	4,591
Lane-Miles	432	421	411	399	390	381
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	6,139	6,009	5,855	5,693	5,558	5,423
Lane-Miles	1,312	1,288	1,254	1,227	1,206	1,182
Public Transportation						
Annual Psgr-Miles of Travel (millions)	42.6	44.5	44.9	45.9	42.8	41.9
Annual Unlinked Psgr Trips (millions)	9.2	9.7	10.1	10.0	9.8	9.5
Cost Components						
Value of Time (\$/hour)	14.10	13.73	13.43	13.22	12.85	12.43
Commercial Cost (\$/hour)	74.17	72.23	70.86	71.38	70.47	66.76
Gasoline (\$/gallon)	1.98	1.56	1.42	1.57	1.58	1.19
Diesel (\$/gallon)	2.02	1.55	1.40	1.58	1.54	1.19
System Performance	2004	2003	2002	2001	2000	1999
Congested Travel (% of peak VMT)	36	36	35	35	34	33
Congested System (% of lane-miles)	35	35	34	34	34	34
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	2,571	2,481	2,382	2,283	2,200	2,099
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	6	6	6	6	6	6
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	9,638	9,287	8,973	8,668	8,373	8,070
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	23	23	23	22	22	21
Rank	--	--	--	--	--	--
Travel Time Index	1.12	1.11	1.11	1.11	1.11	1.11
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	163	151	141	136	128	117
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	524	494	474	463	443	413
Rank	--	--	--	--	--	--

Note: Zeroes in the table reflect values less than 0.5.

The Mobility Data for Medium Areas - Average

Inventory Measures	1998	1997	1996	1995	1994	1993
Urban Area Information						
Population (1000s)	566	559	551	543	533	524
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	286	278	271	264	256	248
Commuters (1000s)	268	261	254	247	240	233
Freeway						
Daily Vehicle-Miles of Travel (1000s)	4,459	4,321	4,198	4,065	3,905	3,788
Lane-Miles	374	367	361	355	351	346
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	5,288	5,142	5,010	4,875	4,746	4,619
Lane-Miles	1,162	1,139	1,122	1,101	1,082	1,072
Public Transportation						
Annual Psgr-Miles of Travel (millions)	41.3	38.5	37.7	38.8	40.9	40.9
Annual Unlinked Psgr Trips (millions)	9.6	9.5	9.5	9.8	10.0	10.2
Cost Components						
Value of Time (\$/hour)	12.17	11.98	11.71	11.37	11.06	10.78
Commercial Cost (\$/hour)	65.76	66.83	66.20	64.27	62.23	60.84
Gasoline (\$/gallon)	1.13	1.24	1.29	1.20	1.10	1.15
Diesel (\$/gallon)	1.20	1.30	1.34	1.24	1.14	1.19
System Performance	1998	1997	1996	1995	1994	1993
Congested Travel (% of peak VMT)	32	31	30	29	28	26
Congested System (% of lane-miles)	33	33	32	31	30	29
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,930	1,773	1,627	1,536	1,416	1,286
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	5	5	5	4	4	4
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	7,462	6,908	6,396	6,032	5,571	5,104
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	20	19	17	17	16	15
Rank	--	--	--	--	--	--
Travel Time Index	1.10	1.10	1.09	1.09	1.08	1.08
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	106	97	89	81	72	65
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	377	351	324	299	270	245
Rank	--	--	--	--	--	--

Note: Zeroes in the table reflect values less than 0.5.

The Mobility Data for Medium Areas - Average

Inventory Measures	1992	1991	1990	1989	1988	1987
Urban Area Information						
Population (1000s)	516	509	500	493	486	478
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	241	235	228	223	218	213
Commuters (1000s)	226	220	214	209	204	199
Freeway						
Daily Vehicle-Miles of Travel (1000s)	3,656	3,456	3,373	3,248	3,118	2,978
Lane-Miles	339	333	330	326	321	316
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	4,442	4,274	4,146	4,017	3,934	3,759
Lane-Miles	1,045	1,027	1,012	998	983	968
Public Transportation						
Annual Psgr-Miles of Travel (millions)	41.4	40.4	40.0	37.2	37.1	36.6
Annual Unlinked Psgr Trips (millions)	10.3	10.1	9.8	9.6	9.4	9.4
Cost Components						
Value of Time (\$/hour)	10.47	10.17	9.75	9.25	8.83	8.48
Commercial Cost (\$/hour)	59.01	57.31	55.03	52.81	50.04	48.53
Gasoline (\$/gallon)	1.17	1.14	1.10	1.13	1.04	1.05
Diesel (\$/gallon)	1.19	1.26	1.13	1.09	1.00	1.01
System Performance	1992	1991	1990	1989	1988	1987
Congested Travel (% of peak VMT)	25	23	23	21	20	19
Congested System (% of lane-miles)	28	27	26	25	24	23
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,181	1,024	963	867	815	745
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	3	3	3	3	3	2
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	4,723	4,105	3,856	3,511	3,259	2,954
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	14	12	12	11	10	10
Rank	--	--	--	--	--	--
Travel Time Index	1.08	1.07	1.06	1.06	1.06	1.05
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	58	49	44	38	34	30
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	224	192	177	156	141	127
Rank	--	--	--	--	--	--

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The Mobility Data for Medium Areas - Average

Inventory Measures	1986	1985	1984	1983	1982
Urban Area Information					
Population (1000s)	470	463	457	452	445
Rank	--	--	--	--	--
Peak Travelers (1000s)	208	203	198	195	190
Commuters (1000s)	195	190	186	183	178
Freeway					
Daily Vehicle-Miles of Travel (1000s)	2,816	2,681	2,525	2,361	2,229
Lane-Miles	311	306	300	290	279
Arterial Streets					
Daily Vehicle-Miles of Travel (1000s)	3,764	3,652	3,451	3,409	3,270
Lane-Miles	951	934	922	907	887
Public Transportation					
Annual Psgr-Miles of Travel (millions)	37.6	38.4	41.6	41.6	41.6
Annual Unlinked Psgr Trips (millions)	9.8	10.0	10.2	10.2	10.2
Cost Components					
Value of Time (\$/hour)	8.18	8.03	7.75	7.43	7.20
Commercial Cost (\$/hour)	46.57	47.83	46.47	44.23	43.08
Gasoline (\$/gallon)	1.02	1.33	1.34	1.38	1.44
Diesel (\$/gallon)	0.98	1.28	1.30	1.33	1.39
System Performance	1986	1985	1984	1983	1982
Congested Travel (% of peak VMT)	18	17	16	15	15
Congested System (% of lane-miles)	22	21	20	20	19
Congested Time (number of "Rush Hours")	--	--	--	--	--
Annual Excess Fuel Consumed					
Total Fuel (1000 gallons)	686	633	546	497	456
Rank	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	2	2	2	2	2
Rank	--	--	--	--	--
Annual Delay					
Total Delay (1000s of person-hours)	2,775	2,554	2,234	2,050	1,880
Rank	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	9	8	8	7	7
Rank	--	--	--	--	--
Travel Time Index	1.05	1.05	1.04	1.04	1.04
Rank	--	--	--	--	--
Commuter Stress Index					
Rank	--	--	--	--	--
Truck Congestion Cost (\$ millions)					
Rank	--	--	--	--	--
Truck Commodity Value (\$ millions)					
Rank	--	--	--	--	--
Congestion Cost					
Total Cost (\$ millions)	27	25	21	19	17
Rank	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	116	111	97	85	79
Rank	--	--	--	--	--

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**Benefits from Public Transportation Service and Operations Strategies in
Medium Areas - Average**

Operations Strategies	2010	2009	2008	2007
Freeway Ramp Metering				
Percent of Roadway Miles	2	2	2	2
Annual Delay Reduction (1000 hours)	1	1	0	1
Freeway Incident Management				
Cameras				
Percent of Roadway Miles	30	29	30	31
Service Patrols				
Percent of Roadway Miles	35	35	35	34
Annual Delay Reduction (1000 hours)	120	119	120	161
Arterial Signal Coordination				
Percent of Roadway Miles	53	53	53	51
Annual Delay Reduction (1000 hours)	68	67	63	64
Arterial Access Management				
Percent of Roadway Miles	26	26	26	26
Annual Delay Reduction (1000 hours)	175	175	162	180
HOV Lanes				
Daily Passenger-miles of travel (1000s)	--	--	--	--
HOV User Delay Savings	--	--	--	--
Added Congestion if Operations Treatments were Discontinued				
Annual Delay Reduction (1000 hours)	363	361	345	405
Annual Delay Saved per Peak Auto Commuter (hrs)	1	1	1	1
Annual Congestion Cost Savings (\$million)	7	10	10	10
Public Transportation Service	2010	2009	2008	2007
Existing Service				
Annual Passenger-miles of travel (million)	41	41	43	41
Unlinked Passenger Trips (million)	9	9	10	9
Added Congestion if Public Transportation Service were Discontinued				
Annual Increase				
Delay (1000 hours)	263	262	266	294
Delay per Peak Auto Commuter (hours)	1	1	1	1
Congestion Cost (\$million)	5	6	6	7

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Urban Area Information						
Population (1000s)	22,078	21,834	21,620	21,355	21,590	21,150
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	12,294	12,113	11,955	11,745	11,808	11,484
Commuters (1000s)	11,518	11,349	11,199	11,005	11,064	10,760
Freeway						
Daily Vehicle-Miles of Travel (1000s)	180,714	178,540	182,000	185,160	186,755	183,460
Lane-Miles	14,673	14,590	14,590	14,500	14,660	14,490
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	209,351	207,079	210,195	212,100	212,775	208,005
Lane-Miles	45,901	45,615	45,615	45,035	44,795	44,045
Public Transportation						
Annual Psgr-Miles of Travel (millions)	1,343.5	1,352.5	1,406.1	1,357.9	1,612.1	1,428.2
Annual Unlinked Psgr Trips (millions)	306.4	308.4	320.7	308.6	337.0	323.1
Cost Components						
Value of Time (\$/hour)	16.30	16.01	16.10	15.47	15.06	14.58
Commercial Cost (\$/hour)	88.12	89.75	81.52	82.56	80.43	78.05
Gasoline (\$/gallon)	2.75	2.30	3.46	3.04	2.67	2.33
Diesel (\$/gallon)	3.01	2.63	4.22	3.47	2.90	2.57
System Performance	2010	2009	2008	2007	2006	2005
Congested Travel (% of peak VMT)	37	37	34	37	37	37
Congested System (% of lane-miles)	35	35	32	35	35	35
Congested Time (number of "Rush Hours")	2.91	2.91	2.96	3.24	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	73,126	77,020	75,848	91,584	93,370	89,000
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	5	5	5	7	7	6
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	313,937	313,298	297,904	337,280	348,069	331,816
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	21	21	21	24	25	24
Rank	--	--	--	--	--	--
Travel Time Index						
Rank	1.11	1.11	1.10	1.12	1.12	1.12
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	1.16	1.15	1.15	1.18	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Truck Congestion Cost (\$ millions)	1,385	1,443	1,275	1,445	--	--
Truck Commodity Value (\$ millions)						
Truck Commodity Value (\$ millions)	609,780	601,525	593,383	585,350	--	--
Congestion Cost						
Total Cost (\$ millions)	6,357	6,313	5,985	6,569	6,511	5,937
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	426	429	418	464	608	567
Rank	--	--	--	--	--	--

Note: Zeroes in the table reflect values less than 0.5.

The Mobility Data for Medium Areas - Sum

Inventory Measures	2004	2003	2002	2001	2000	1999
Urban Area Information						
Population (1000s)	20,780	20,410	20,025	19,665	19,315	18,950
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	11,220	10,959	10,632	10,304	9,985	9,683
Commuters (1000s)	10,513	10,269	9,962	9,654	9,356	9,073
Freeway						
Daily Vehicle-Miles of Travel (1000s)	179,170	172,845	167,620	161,500	156,895	151,500
Lane-Miles	14,255	13,885	13,560	13,165	12,870	12,560
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	202,575	198,300	193,220	187,870	183,410	178,965
Lane-Miles	43,290	42,505	41,370	40,475	39,810	39,020
Public Transportation						
Annual Psgr-Miles of Travel (millions)	1,405.9	1,467.8	1,480.6	1,514.2	1,411.9	1,383.4
Annual Unlinked Psgr Trips (millions)	305.1	320.9	333.4	331.2	323.0	313.7
Cost Components						
Value of Time (\$/hour)	14.10	13.73	13.43	13.22	12.85	12.43
Commercial Cost (\$/hour)	74.17	72.23	70.86	71.38	70.47	66.76
Gasoline (\$/gallon)	1.98	1.56	1.42	1.57	1.58	1.19
Diesel (\$/gallon)	2.02	1.55	1.40	1.58	1.54	1.19
System Performance	2004	2003	2002	2001	2000	1999
Congested Travel (% of peak VMT)	36	36	35	35	34	33
Congested System (% of lane-miles)	35	35	34	34	34	34
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	84,845	81,876	78,604	75,333	72,592	69,263
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	6	6	6	6	6	6
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	318,047	306,483	296,117	286,058	276,320	266,326
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	23	23	23	22	22	21
Rank	--	--	--	--	--	--
Travel Time Index	1.12	1.11	1.11	1.11	1.11	1.11
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Truck Commodity Value (\$ millions)						
Congestion Cost						
Total Cost (\$ millions)	5,389	4,970	4,664	4,478	4,230	3,858
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	524	494	474	463	443	413
Rank	--	--	--	--	--	--

Note: Zeroes in the table reflect values less than 0.5.

The Mobility Data for Medium Areas - Sum

Inventory Measures	1998	1997	1996	1995	1994	1993
Urban Area Information						
Population (1000s)	18,685	18,435	18,185	17,915	17,600	17,285
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	9,434	9,180	8,946	8,706	8,447	8,192
Commuters (1000s)	8,840	8,601	8,383	8,157	7,915	7,676
Freeway						
Daily Vehicle-Miles of Travel (1000s)	147,150	142,580	138,545	134,160	128,880	125,010
Lane-Miles	12,349	12,100	11,900	11,715	11,570	11,415
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	174,505	169,700	165,320	160,890	156,630	152,435
Lane-Miles	38,335	37,600	37,030	36,320	35,690	35,365
Public Transportation						
Annual Psgr-Miles of Travel (millions)	1,361.3	1,270.8	1,244.7	1,281.5	1,348.0	1,350.5
Annual Unlinked Psgr Trips (millions)	317.9	314.2	314.1	321.6	328.4	336.6
Cost Components						
Value of Time (\$/hour)	12.17	11.98	11.71	11.37	11.06	10.78
Commercial Cost (\$/hour)	65.76	66.83	66.20	64.27	62.23	60.84
Gasoline (\$/gallon)	1.13	1.24	1.29	1.20	1.10	1.15
Diesel (\$/gallon)	1.20	1.30	1.34	1.24	1.14	1.19
System Performance	1998	1997	1996	1995	1994	1993
Congested Travel (% of peak VMT)	32	31	30	29	28	26
Congested System (% of lane-miles)	33	33	32	31	30	29
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	63,701	58,500	53,707	50,689	46,725	42,453
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	5	5	5	4	4	4
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	246,258	227,965	211,064	199,063	183,830	168,436
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	20	19	17	17	16	15
Rank	--	--	--	--	--	--
Travel Time Index	1.10	1.10	1.09	1.09	1.08	1.08
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Truck Commodity Value (\$ millions)						
Congestion Cost						
Total Cost (\$ millions)	3,487	3,215	2,927	2,667	2,389	2,136
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	377	351	324	299	270	245
Rank	--	--	--	--	--	--

Note: Zeroes in the table reflect values less than 0.5.

The Mobility Data for Medium Areas - Sum

Inventory Measures	1992	1991	1990	1989	1988	1987
Urban Area Information						
Population (1000s)	17,020	16,790	16,510	16,270	16,035	15,765
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	7,965	7,756	7,528	7,353	7,198	7,014
Commuters (1000s)	7,463	7,268	7,053	6,890	6,745	6,572
Freeway						
Daily Vehicle-Miles of Travel (1000s)	120,660	114,040	111,315	107,180	102,905	98,260
Lane-Miles	11,175	11,000	10,880	10,755	10,590	10,435
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	146,593	141,045	136,810	132,570	129,825	124,050
Lane-Miles	34,475	33,895	33,380	32,950	32,435	31,940
Public Transportation						
Annual Psgr-Miles of Travel (millions)	1,364.7	1,333.8	1,319.9	1,228.7	1,225.2	1,206.7
Annual Unlinked Psgr Trips (millions)	340.3	332.9	322.1	318.0	309.9	310.0
Cost Components						
Value of Time (\$/hour)	10.47	10.17	9.75	9.25	8.83	8.48
Commercial Cost (\$/hour)	59.01	57.31	55.03	52.81	50.04	48.53
Gasoline (\$/gallon)	1.17	1.14	1.10	1.13	1.04	1.05
Diesel (\$/gallon)	1.19	1.26	1.13	1.09	1.00	1.01
System Performance	1992	1991	1990	1989	1988	1987
Congested Travel (% of peak VMT)	25	23	23	21	20	19
Congested System (% of lane-miles)	28	27	26	25	24	23
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	38,986	33,781	31,777	28,610	26,903	24,579
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	3	3	3	3	3	2
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	155,863	135,465	127,261	115,858	107,553	97,495
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	14	12	12	11	10	10
Rank	--	--	--	--	--	--
Travel Time Index	1.08	1.07	1.06	1.06	1.06	1.05
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	1,920	1,622	1,463	1,267	1,119	979
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	224	192	177	156	141	127
Rank	--	--	--	--	--	--

Note: Zeroes in the table reflect values less than 0.5.

The Mobility Data for Medium Areas - Sum

Inventory Measures	1986	1985	1984	1983	1982
Urban Area Information					
Population (1000s)	15,525	15,285	15,065	14,900	14,700
Rank	--	--	--	--	--
Peak Travelers (1000s)	6,860	6,707	6,550	6,433	6,274
Commuters (1000s)	6,428	6,284	6,138	6,028	5,879
Freeway					
Daily Vehicle-Miles of Travel (1000s)	92,940	88,471	83,325	77,900	73,545
Lane-Miles	10,270	10,100	9,915	9,555	9,205
Arterial Streets					
Daily Vehicle-Miles of Travel (1000s)	124,215	120,520	113,895	112,490	107,910
Lane-Miles	31,395	30,825	30,420	29,925	29,275
Public Transportation					
Annual Psgr-Miles of Travel (millions)	1,241.7	1,268.4	1,373.7	1,373.7	1,373.7
Annual Unlinked Psgr Trips (millions)	321.7	330.5	338.0	338.0	338.0
Cost Components					
Value of Time (\$/hour)	8.18	8.03	7.75	7.43	7.20
Commercial Cost (\$/hour)	46.57	47.83	46.47	44.23	43.08
Gasoline (\$/gallon)	1.02	1.33	1.34	1.38	1.44
Diesel (\$/gallon)	0.98	1.28	1.30	1.33	1.39
System Performance	1986	1985	1984	1983	1982
Congested Travel (% of peak VMT)	18	17	16	15	15
Congested System (% of lane-miles)	22	21	20	20	19
Congested Time (number of "Rush Hours")	--	--	--	--	--
Annual Excess Fuel Consumed					
Total Fuel (1000 gallons)	22,627	20,882	18,019	16,392	15,046
Rank	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	2	2	2	2	2
Rank	--	--	--	--	--
Annual Delay					
Total Delay (1000s of person-hours)	91,572	84,287	73,726	67,657	62,025
Rank	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	9	8	8	7	7
Rank	--	--	--	--	--
Travel Time Index	1.05	1.05	1.04	1.04	1.04
Rank	--	--	--	--	--
Commuter Stress Index					
Rank	--	--	--	--	--
Truck Congestion Cost (\$ millions)					
Rank	--	--	--	--	--
Truck Commodity Value (\$ millions)					
Rank	--	--	--	--	--
Congestion Cost					
Total Cost (\$ millions)	886	831	706	622	560
Rank	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	116	111	97	85	79
Rank	--	--	--	--	--

Note: Zeroes in the table reflect values less than 0.5.

**Benefits from Public Transportation Service and Operations Strategies in
Medium Areas - Sum**

Operations Strategies	2010	2009	2008	2007
Freeway Ramp Metering				
Percent of Roadway Miles	2	2	2	2
Annual Delay Reduction (1000 hours)	19	21	16	18
Freeway Incident Management				
Cameras				
Percent of Roadway Miles	30	29	30	31
Service Patrols				
Percent of Roadway Miles	35	35	35	34
Annual Delay Reduction (1000 hours)	3,950	3,918	3,948	5,306
Arterial Signal Coordination				
Percent of Roadway Miles	53	53	53	51
Annual Delay Reduction (1000 hours)	2,228	2,204	2,071	2,114
Arterial Access Management				
Percent of Roadway Miles	26	26	26	26
Annual Delay Reduction (1000 hours)	5,771	5,775	5,340	5,936
HOV Lanes				
Daily Passenger-miles of travel (1000s)	--	--	--	--
HOV User Delay Savings	--	--	--	--
Added Congestion if Operations Treatments were Discontinued				
Annual Delay Reduction (1000 hours)	11,969	11,918	11,376	13,374
Annual Delay Saved per Peak Auto Commuter (hrs)	1	1	1	1
Annual Congestion Cost Savings (\$million)	245	290	280	320
Public Transportation Service	2010	2009	2008	2007
Existing Service				
Annual Passenger-miles of travel (million)	1,343	1,353	1,406	1,358
Unlinked Passenger Trips (million)	306	308	321	309
Added Congestion if Public Transportation Service were Discontinued				
Annual Increase				
Delay (1000 hours)	8,664	8,642	8,774	9,694
Delay per Peak Auto Commuter (hours)	1	1	1	1
Congestion Cost (\$million)	174	204	213	226

Note: Zeroes in the table reflect values less than 0.5.