Performance Measure Summary - All 101 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.

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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 All 101 Areas - Average

Inventory Measures	2010	2009	2008	2007	2006	2005
Urban Area Information						
Population (1000s)	1,702	1,682	1,666	1,656	1,633	1,615
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	932	918	906	897	881	866
Commuters (1000s)	829	816	805	798	783	769
Freeway						
Daily Vehicle-Miles of Travel (1000s)	14,933	14,779	14,996	15,275	15,163	14,977
Lane-Miles	956	950	960	952	944	931
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	14,415	14,269	14,477	14,680	14,667	14,508
Lane-Miles	2,850	2,832	2,832	2,799	2,774	2,736
Public Transportation						
Annual Psgr-Miles of Travel (millions)	486.0	489.3	508.6	495.6	475.3	452.6
Annual Unlinked Psgr Trips (millions)	92.3	92.9	96.6	95.2	89.7	87.7
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 ($/gallon)	2.79	2.34	3.51	3.07	2.70	2.36
Diesel ($/gallon)	3.04	2.63	4.24	3.47	2.92	2.61
System Performance	**2010**	**2009**	**2008**	**2007**	**2006**	**2005**
Congested Travel (% of peak VMT)	62	61	59	62	62	62
Congested System (% of lane-miles)	49	48	47	49	49	49
Congested Time (number of "Rush Hours")	4.86	4.87	5.01	5.59	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	18,172	17,678	17,332	20,253	20,689	20,595
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	17	17	17	20	20	21
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	42,461	41,807	40,458	45,883	46,998	46,801
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	40	40	40	45	46	46
Rank	--	--	--	--	--	--
Travel Time Index	1.21	1.20	1.20	1.24	1.25	1.25
Rank	--	--	--	--	--	--
Commuter Stress Index	1.30	1.29	1.29	1.36	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	198	199	179	203	--	--
Truck Commodity Value ($ millions)	58,981	58,183	57,395	56,281	--	--
Congestion Cost						
Total Cost ($ millions)	890	866	841	922	909	866
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	829	816	820	905	1,195	1,152
Rank	--	--	--	--	--	--

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

The Mobility Data for All 101 Areas - Average

Inventory Measures	2004	2003	2002	2001	2000	1999
Urban Area Information						
Population (1000s)	1,598	1,576	1,552	1,530	1,506	1,480
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	852	835	813	789	764	740
Commuters (1000s)	757	742	722	700	678	657
Freeway						
Daily Vehicle-Miles of Travel (1000s)	14,722	14,291	13,822	13,424	13,047	12,690
Lane-Miles	918	899	878	860	844	833
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	14,277	13,921	13,585	13,214	12,933	12,632
Lane-Miles	2,685	2,629	2,569	2,521	2,475	2,431
Public Transportation						
Annual Psgr-Miles of Travel (millions)	448.7	440.4	442.3	447.8	434.4	416.2
Annual Unlinked Psgr Trips (millions)	85.1	84.9	86.1	86.0	83.2	81.3
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 ($/gallon)	2.01	1.57	1.45	1.61	1.59	1.23
Diesel ($/gallon)	2.04	1.59	1.43	1.61	1.56	1.23
System Performance	**2004**	**2003**	**2002**	**2001**	**2000**	**1999**
Congested Travel (% of peak VMT)	62	61	60	59	58	57
Congested System (% of lane-miles)	49	48	48	47	46	46
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	19,767	18,724	17,915	16,867	16,068	15,483
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	20	19	19	18	18	17
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	44,715	42,502	40,652	38,445	36,784	35,368
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	45	44	43	41	40	39
Rank	--	--	--	--	--	--
Travel Time Index	1.24	1.24	1.23	1.23	1.22	1.22
Rank	--	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--	--
Congestion Cost						
Total Cost ($ millions)	784	712	663	624	583	530
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	1,058	977	932	893	847	782
Rank	--	--	--	--	--	--

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

The Mobility Data for All 101 Areas - Average

Inventory Measures	1998	1997	1996	1995	1994	1993
Urban Area Information						
Population (1000s)	1,460	1,437	1,418	1,397	1,378	1,361
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	719	697	677	656	638	620
Commuters (1000s)	638	618	600	582	565	550
Freeway						
Daily Vehicle-Miles of Travel (1000s)	12,316	11,917	11,592	11,227	10,827	10,476
Lane-Miles	822	809	798	788	779	766
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	12,306	12,084	11,784	11,464	11,153	10,793
Lane-Miles	2,391	2,348	2,307	2,270	2,234	2,202
Public Transportation						
Annual Psgr-Miles of Travel (millions)	400.7	382.6	375.6	365.4	354.3	339.6
Annual Unlinked Psgr Trips (millions)	77.5	75.5	72.3	71.6	72.2	70.1
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 ($/gallon)	1.12	1.24	1.28	1.20	1.10	1.15
Diesel ($/gallon)	1.22	1.32	1.34	1.26	1.15	1.20
System Performance	**1998**	**1997**	**1996**	**1995**	**1994**	**1993**
Congested Travel (% of peak VMT)	55	54	52	51	49	48
Congested System (% of lane-miles)	45	44	43	43	42	42
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	14,512	13,866	13,146	12,325	11,363	10,959
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	16	16	15	15	14	14
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	33,054	31,811	30,150	28,376	26,444	25,301
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	37	36	35	34	32	31
Rank	--	--	--	--	--	--
Travel Time Index	1.20	1.20	1.19	1.19	1.18	1.18
Rank	--	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--	--
Congestion Cost						
Total Cost ($ millions)	483	464	433	394	355	332
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	725	709	674	626	574	547
Rank	--	--	--	--	--	--

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The Mobility Data for All 101 Areas - Average

Inventory Measures	1992	1991	1990	1989	1988	1987
Urban Area Information						
Population (1000s)	1,344	1,328	1,306	1,289	1,271	1,250
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	603	587	569	556	544	530
Commuters (1000s)	535	520	504	492	481	469
Freeway						
Daily Vehicle-Miles of Travel (1000s)	10,104	9,704	9,473	9,131	8,703	8,258
Lane-Miles	745	723	707	692	677	664
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	10,458	10,107	9,856	9,579	9,362	9,006
Lane-Miles	2,164	2,127	2,092	2,059	2,027	1,985
Public Transportation						
Annual Psgr-Miles of Travel (millions)	349.7	360.5	364.0	367.8	356.2	336.8
Annual Unlinked Psgr Trips (millions)	72.8	73.8	75.9	77.4	74.2	75.3
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 ($/gallon)	1.17	1.14	1.10	1.12	1.03	1.03
Diesel ($/gallon)	1.20	1.26	1.13	1.08	1.00	1.01
System Performance	**1992**	**1991**	**1990**	**1989**	**1988**	**1987**
Congested Travel (% of peak VMT)	47	46	46	45	43	40
Congested System (% of lane-miles)	41	40	40	39	38	36
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	10,644	10,110	9,927	9,339	8,505	7,347
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	14	13	13	13	12	10
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	24,410	23,094	22,800	21,546	19,809	17,145
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	31	30	30	29	27	24
Rank	--	--	--	--	--	--
Travel Time Index	1.18	1.17	1.17	1.17	1.16	1.14
Rank	--	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--	--
Congestion Cost						
Total Cost ($ millions)	312	286	272	244	213	178
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	524	489	478	439	390	332
Rank	--	--	--	--	--	--

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The Mobility Data for All 101 Areas - Average

Inventory Measures	1986	1985	1984	1983	1982
Urban Area Information					
Population (1000s)	1,231	1,209	1,188	1,176	1,166
Rank	--	--	--	--	--
Peak Travelers (1000s)	518	504	491	482	473
Commuters (1000s)	458	445	434	426	417
Freeway					
Daily Vehicle-Miles of Travel (1000s)	7,777	7,328	6,946	6,561	6,222
Lane-Miles	650	639	628	615	597
Arterial Streets					
Daily Vehicle-Miles of Travel (1000s)	8,806	8,486	8,181	7,968	7,733
Lane-Miles	1,965	1,933	1,903	1,871	1,842
Public Transportation					
Annual Psgr-Miles of Travel (millions)	338.3	355.5	349.2	349.1	349.1
Annual Unlinked Psgr Trips (millions)	76.1	80.0	82.4	82.4	82.4
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 ($/gallon)	1.01	1.32	1.33	1.36	1.43
Diesel ($/gallon)	0.98	1.28	1.29	1.32	1.38
System Performance	**1986**	**1985**	**1984**	**1983**	**1982**
Congested Travel (% of peak VMT)	37	34	31	29	28
Congested System (% of lane-miles)	34	33	31	30	29
Congested Time (number of "Rush Hours")	--	--	--	--	--
Annual Excess Fuel Consumed					
Total Fuel (1000 gallons)	6,415	5,500	4,723	4,186	3,927
Rank	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	9	8	7	6	6
Rank	--	--	--	--	--
Annual Delay					
Total Delay (1000s of person-hours)	15,222	13,291	11,450	10,265	9,586
Rank	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	21	19	17	15	14
Rank	--	--	--	--	--
Travel Time Index	1.13	1.11	1.10	1.09	1.09
Rank	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--
Rank	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--
Congestion Cost					
Total Cost ($ millions)	152	135	113	98	90
Rank	--	--	--	--	--
Cost per Peak Auto Commuter ($)	285	257	221	192	178
Rank	--	--	--	--	--

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Benefits from Public Transportation Service and Operations Strategies in All 101 Areas - Average

Operations Strategies	2010	2009	2008	2007
Freeway Ramp Metering				
Percent of Roadway Miles	25	25	25	25
Annual Delay Reduction (1000 hours)	395	386	370	456
Freeway Incident Management				
Cameras				
Percent of Roadway Miles	52	52	53	51
Service Patrols				
Percent of Roadway Miles	70	70	70	69
Annual Delay Reduction (1000 hours)	1,336	1,312	1,303	1,510
Arterial Signal Coordination				
Percent of Roadway Miles	61	60	61	61
Annual Delay Reduction (1000 hours)	215	211	204	227
Arterial Access Management				
Percent of Roadway Miles	33	33	33	33
Annual Delay Reduction (1000 hours)	763	752	713	811
HOV Lanes				
Daily Passenger-miles of travel (1000s)	210	209	211	203
HOV User Delay Savings	374	366	349	410
Added Congestion if Operations Treatments were Discontinued				
Annual Delay Reduction (1000 hours)	3,095	3,023	2,939	3,413
Annual Delay Saved per Peak Auto Commuter (hrs)	4	4	4	4
Annual Congestion Cost Savings ($million)	65	70	70	80
Public Transportation Service	**2010**	**2009**	**2008**	**2007**
Existing Service				
Annual Passenger-miles of travel (million)	486	489	509	496
Unlinked Passenger Trips (million)	92	93	97	95
Added Congestion if Public Transportation Service were Discontinued				
Annual Increase				
Delay (1000 hours)	7,583	7,464	7,640	8,461
Delay per Peak Auto Commuter (hours)	9	9	9	11
Congestion Cost ($million)	160	178	188	198

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

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Inventory Measures	2010	2009	2008	2007	2006	2005
Urban Area Information						
Population (1000s)	171,944	169,877	168,268	168,895	164,925	163,140
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	94,146	92,704	91,480	91,518	88,964	87,455
Commuters (1000s)	83,722	82,412	81,314	81,397	79,060	77,709
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,508,184	1,492,644	1,514,605	1,558,065	1,531,475	1,512,635
Lane-Miles	96,590	95,980	96,980	97,085	95,340	94,020
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,455,925	1,441,165	1,462,205	1,497,325	1,481,355	1,465,350
Lane-Miles	287,835	286,045	286,045	285,485	280,205	276,364
Public Transportation						
Annual Psgr-Miles of Travel (millions)	49,084.6	49,415.7	51,373.0	50,545.8	48,003.9	45,710.0
Annual Unlinked Psgr Trips (millions)	9,317.9	9,380.7	9,752.3	9,710.1	9,054.4	8,859.8
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 ($/gallon)	2.79	2.34	3.51	3.07	2.70	2.36
Diesel ($/gallon)	3.04	2.63	4.24	3.47	2.92	2.61
System Performance	**2010**	**2009**	**2008**	**2007**	**2006**	**2005**
Congested Travel (% of peak VMT)	62	61	59	62	62	62
Congested System (% of lane-miles)	49	48	47	49	49	49
Congested Time (number of "Rush Hours")	4.86	4.87	5.01	5.59	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,835,371	1,785,431	1,750,551	2,065,785	2,089,609	2,080,050
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	17	17	17	20	20	21
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	4,288,547	4,222,541	4,086,254	4,680,116	4,746,785	4,726,860
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	40	40	40	45	46	46
Rank	--	--	--	--	--	--
Travel Time Index	1.21	1.20	1.20	1.24	1.25	1.25
Rank	--	--	--	--	--	--
Commuter Stress Index	1.30	1.29	1.29	1.36	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	19,989	20,146	18,073	20,733	--	--
Truck Commodity Value ($ millions)	5,957,102	5,876,460	5,796,911	5,740,641	--	--
Congestion Cost						
Total Cost ($ millions)	89,881	87,441	84,959	94,016	91,809	87,471
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	829	816	820	905	1,195	1,152
Rank	--	--	--	--	--	--

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

The Mobility Data for All 101 Areas - Sum

Inventory Measures	2004	2003	2002	2001	2000	1999
Urban Area Information						
Population (1000s)	161,365	159,200	156,800	154,535	152,100	149,485
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	86,017	84,380	82,093	79,651	77,197	74,711
Commuters (1000s)	76,417	74,945	72,899	70,723	68,525	66,326
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,486,895	1,443,420	1,396,065	1,355,790	1,317,715	1,281,685
Lane-Miles	92,705	90,760	88,725	86,855	85,200	84,125
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,442,025	1,406,065	1,372,120	1,334,625	1,306,200	1,275,870
Lane-Miles	271,220	265,565	259,420	254,620	250,011	245,480
Public Transportation						
Annual Psgr-Miles of Travel (millions)	45,316.8	44,479.2	44,667.6	45,230.9	43,872.9	42,039.4
Annual Unlinked Psgr Trips (millions)	8,595.8	8,572.4	8,700.3	8,689.5	8,402.3	8,214.8
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 ($/gallon)	2.01	1.57	1.45	1.61	1.59	1.23
Diesel ($/gallon)	2.04	1.59	1.43	1.61	1.56	1.23
System Performance	**2004**	**2003**	**2002**	**2001**	**2000**	**1999**
Congested Travel (% of peak VMT)	62	61	60	59	58	57
Congested System (% of lane-miles)	49	48	48	47	46	46
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,996,422	1,891,074	1,809,406	1,703,538	1,622,910	1,563,823
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	20	19	19	18	18	17
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	4,516,208	4,292,697	4,105,873	3,882,952	3,715,154	3,572,125
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	45	44	43	41	40	39
Rank	--	--	--	--	--	--
Travel Time Index	1.24	1.24	1.23	1.23	1.22	1.22
Rank	--	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--	--
Congestion Cost						
Total Cost ($ millions)	79,140	71,861	66,941	63,002	58,845	53,519
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	1,058	977	932	893	847	782
Rank	--	--	--	--	--	--

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

The Mobility Data for All 101 Areas - Sum

Inventory Measures	1998	1997	1996	1995	1994	1993
Urban Area Information						
Population (1000s)	147,420	145,170	143,180	141,085	139,155	137,450
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	72,572	70,360	68,331	66,304	64,415	62,664
Commuters (1000s)	64,418	62,447	60,627	58,807	57,114	55,545
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,243,898	1,203,645	1,170,780	1,133,975	1,093,515	1,058,025
Lane-Miles	82,989	81,660	80,600	79,610	78,720	77,350
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,242,925	1,220,440	1,190,175	1,157,900	1,126,420	1,090,120
Lane-Miles	241,500	237,190	233,050	229,300	225,625	222,405
Public Transportation						
Annual Psgr-Miles of Travel (millions)	40,467.7	38,637.7	37,940.1	36,907.3	35,783.4	34,301.3
Annual Unlinked Psgr Trips (millions)	7,825.0	7,623.9	7,305.3	7,228.8	7,291.1	7,084.5
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 ($/gallon)	1.12	1.24	1.28	1.20	1.10	1.15
Diesel ($/gallon)	1.22	1.32	1.34	1.26	1.15	1.20
System Performance	**1998**	**1997**	**1996**	**1995**	**1994**	**1993**
Congested Travel (% of peak VMT)	55	54	52	51	49	48
Congested System (% of lane-miles)	45	44	43	43	42	42
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,465,710	1,400,458	1,327,714	1,244,851	1,147,700	1,106,884
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	16	16	15	15	14	14
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	3,338,488	3,212,934	3,045,155	2,865,967	2,670,892	2,555,414
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	37	36	35	34	32	31
Rank	--	--	--	--	--	--
Travel Time Index	1.20	1.20	1.19	1.19	1.18	1.18
Rank	--	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--	--
Congestion Cost						
Total Cost ($ millions)	48,813	46,850	43,703	39,810	35,868	33,555
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	725	709	674	626	574	547
Rank	--	--	--	--	--	--

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

The Mobility Data for All 101 Areas - Sum

Inventory Measures	1992	1991	1990	1989	1988	1987
Urban Area Information						
Population (1000s)	135,697	134,135	131,920	130,140	128,395	126,235
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	60,930	59,300	57,425	56,177	54,932	53,547
Commuters (1000s)	53,997	52,536	50,856	49,734	48,620	47,383
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,020,540	980,130	956,800	922,256	878,955	834,105
Lane-Miles	75,265	73,015	71,435	69,850	68,375	67,020
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,056,258	1,020,815	995,475	967,470	945,580	909,640
Lane-Miles	218,595	214,805	211,320	207,945	204,685	200,530
Public Transportation						
Annual Psgr-Miles of Travel (millions)	35,324.1	36,411.8	36,763.1	37,148.4	35,972.5	34,018.1
Annual Unlinked Psgr Trips (millions)	7,352.8	7,455.1	7,661.3	7,818.0	7,497.7	7,600.3
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 ($/gallon)	1.17	1.14	1.10	1.12	1.03	1.03
Diesel ($/gallon)	1.20	1.26	1.13	1.08	1.00	1.01
System Performance	**1992**	**1991**	**1990**	**1989**	**1988**	**1987**
Congested Travel (% of peak VMT)	47	46	46	45	43	40
Congested System (% of lane-miles)	41	40	40	39	38	36
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,075,016	1,021,151	1,002,632	943,225	858,990	742,041
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	14	13	13	13	12	10
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	2,465,433	2,332,505	2,302,817	2,176,151	2,000,745	1,731,678
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	31	30	30	29	27	24
Rank	--	--	--	--	--	--
Travel Time Index	1.18	1.17	1.17	1.17	1.16	1.14
Rank	--	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--	--
Congestion Cost						
Total Cost ($ millions)	31,519	28,923	27,441	24,645	21,516	17,967
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter ($)	524	489	478	439	390	332
Rank	--	--	--	--	--	--

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The Mobility Data for All 101 Areas - Sum

Inventory Measures	1986	1985	1984	1983	1982
Urban Area Information					
Population (1000s)	124,365	122,070	120,000	118,825	117,815
Rank	--	--	--	--	--
Peak Travelers (1000s)	52,278	50,865	49,566	48,678	47,740
Commuters (1000s)	46,245	44,970	43,801	42,994	42,141
Freeway					
Daily Vehicle-Miles of Travel (1000s)	785,475	740,161	701,530	662,645	628,450
Lane-Miles	65,677	64,547	63,415	62,090	60,270
Arterial Streets					
Daily Vehicle-Miles of Travel (1000s)	889,425	857,035	826,240	804,760	781,010
Lane-Miles	198,440	195,255	192,185	188,990	186,045
Public Transportation					
Annual Psgr-Miles of Travel (millions)	34,169.9	35,907.3	35,265.2	35,257.8	35,257.8
Annual Unlinked Psgr Trips (millions)	7,684.2	8,077.5	8,326.6	8,326.1	8,326.1
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 ($/gallon)	1.01	1.32	1.33	1.36	1.43
Diesel ($/gallon)	0.98	1.28	1.29	1.32	1.38
System Performance	**1986**	**1985**	**1984**	**1983**	**1982**
Congested Travel (% of peak VMT)	37	34	31	29	28
Congested System (% of lane-miles)	34	33	31	30	29
Congested Time (number of "Rush Hours")	--	--	--	--	--
Annual Excess Fuel Consumed					
Total Fuel (1000 gallons)	647,939	555,466	476,996	422,791	396,581
Rank	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	9	8	7	6	6
Rank	--	--	--	--	--
Annual Delay					
Total Delay (1000s of person-hours)	1,537,383	1,342,437	1,156,405	1,036,798	968,222
Rank	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	21	19	17	15	14
Rank	--	--	--	--	--
Travel Time Index	1.13	1.11	1.10	1.09	1.09
Rank	--	--	--	--	--
Commuter Stress Index	--	--	--	--	--
Rank	--	--	--	--	--
Truck Congestion Cost ($ millions)	--	--	--	--	--
Truck Commodity Value ($ millions)	--	--	--	--	--
Congestion Cost					
Total Cost ($ millions)	15,392	13,677	11,441	9,879	9,046
Rank	--	--	--	--	--
Cost per Peak Auto Commuter ($)	285	257	221	192	178
Rank	--	--	--	--	--

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

Benefits from Public Transportation Service and Operations Strategies in All 101 Areas - Sum

Operations Strategies	2010	2009	2008	2007
Freeway Ramp Metering				
Percent of Roadway Miles	25	25	25	25
Annual Delay Reduction (1000 hours)	39,452	38,620	37,376	46,543
Freeway Incident Management				
Cameras				
Percent of Roadway Miles	52	52	53	51
Service Patrols				
Percent of Roadway Miles	70	70	70	69
Annual Delay Reduction (1000 hours)	134,935	132,544	131,586	154,008
Arterial Signal Coordination				
Percent of Roadway Miles	61	60	61	61
Annual Delay Reduction (1000 hours)	21,716	21,345	20,560	23,138
Arterial Access Management				
Percent of Roadway Miles	33	33	33	33
Annual Delay Reduction (1000 hours)	77,103	75,940	72,053	82,697
HOV Lanes				
Daily Passenger-miles of travel (1000s)	21,233	21,084	21,320	20,693
HOV User Delay Savings	37,731	36,922	35,215	41,790
Added Congestion if Operations Treatments were Discontinued				
Annual Delay Reduction (1000 hours)	309,455	305,370	296,789	348,175
Annual Delay Saved per Peak Auto Commuter (hrs)	4	4	4	4
Annual Congestion Cost Savings ($million)	6,518	7,220	7,240	8,070
Public Transportation Service	**2010**	**2009**	**2008**	**2007**
Existing Service				
Annual Passenger-miles of travel (million)	49,085	49,416	51,373	50,546
Unlinked Passenger Trips (million)	9,318	9,381	9,752	9,710
Added Congestion if Public Transportation Service were Discontinued				
Annual Increase				
Delay (1000 hours)	765,886	753,870	771,683	863,049
Delay per Peak Auto Commuter (hours)	9	9	9	11
Congestion Cost ($million)	16,151	18,025	18,985	20,188

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