

Performance Measure Summary - All 439 Areas - Average

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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 All 439 Areas Average

Inventory Measures	2010	2009	2008	2007	2006	2005
Urban Area Information						
Population (1000s)	498	495	490	483	483	481
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	274	269	267	263	262	259
Commuters (1000s)	246	243	237	236	235	233
Freeway						
Daily Vehicle-Miles of Travel (1000s)	4,166	4,125	4,100	4,189	4,146	4,148
Lane-Miles	299	298	295	288	284	283
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	4,521	4,480	4,465	4,524	4,488	4,502
Lane-Miles	939	935	930	911	900	902
Public Transportation						
Annual Psgr-Miles of Travel (millions)	125.3	126.2	131.4	127.2	121.8	117.9
Annual Unlinked Psgr Trips (millions)	24.5	24.7	25.6	24.8	23.4	23.2
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	2.28	3.51	3.06	2.70	2.36
Diesel (\$/gallon)	3.01	2.62	4.18	3.44	2.87	2.53
System Performance	2010	2009	2008	2007	2006	2005
Congested Travel (% of peak VMT)	54	53	53	55	56	56
Congested System (% of lane-miles)	43	43	43	45	45	45
Congested Time (number of "Rush Hours")	4.24	4.20	4.25	4.77	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	4,427	4,368	4,278	5,023	4,963	4,996
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	14	14	14	17	17	17
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	10,987	10,929	10,528	11,834	11,962	12,086
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	34	34	34	38	39	39
Rank	--	--	--	--	--	--
Travel Time Index						
Rank	1.20	1.20	1.20	1.24	1.24	1.25
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	1.30	1.29	1.29	1.36	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	52	53	47	53	--	--
Rank	16,021	15,804	15,590	15,382	--	--
Congestion Cost						
Total Cost (\$ millions)	230	226	218	239	232	224
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	713	711	710	780	747	729
Rank	--	--	--	--	--	--

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

The Mobility Data for All 439 Areas Average

Inventory Measures	2004	2003	2002	2001	2000	1999
Urban Area Information						
Population (1000s)	481	486	512	496	494	480
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	257	259	269	256	252	241
Commuters (1000s)	231	232	242	231	226	216
Freeway						
Daily Vehicle-Miles of Travel (1000s)	4,107	4,100	4,236	4,062	3,959	3,851
Lane-Miles	280	281	292	282	279	276
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	4,483	4,454	4,638	4,453	4,402	4,297
Lane-Miles	890	891	925	899	890	875
Public Transportation						
Annual Psgr-Miles of Travel (millions)	118.5	120.4	129.9	130.8	127.3	121.5
Annual Unlinked Psgr Trips (millions)	22.9	23.6	25.7	25.5	24.7	24.1
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)	1.99	1.53	1.39	1.57	1.52	1.17
System Performance	2004	2003	2002	2001	2000	1999
Congested Travel (% of peak VMT)	56	55	55	54	52	52
Congested System (% of lane-miles)	45	45	45	44	43	43
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	4,864	4,732	4,854	4,516	4,295	4,096
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	17	16	16	16	14	14
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	11,735	11,423	11,729	10,960	10,494	10,022
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	39	37	37	36	35	35
Rank	--	--	--	--	--	--
Travel Time Index	1.24	1.23	1.23	1.22	1.21	1.21
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	205	191	192	177	165	149
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	672	623	602	581	553	522
Rank	--	--	--	--	--	--

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

The Mobility Data for All 439 Areas Average

Inventory Measures	1998	1997	1996	1995	1994	1993
Urban Area Information						
Population (1000s)	481	468	469	462	456	451
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	238	228	225	218	212	206
Commuters (1000s)	214	205	202	196	190	185
Freeway						
Daily Vehicle-Miles of Travel (1000s)	3,774	3,616	3,603	3,494	3,383	3,273
Lane-Miles	276	270	274	272	269	264
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	4,237	4,130	4,165	4,056	3,951	3,828
Lane-Miles	872	856	864	854	843	830
Public Transportation						
Annual Psgr-Miles of Travel (millions)	118.6	112.6	114.4	111.3	108.7	104.7
Annual Unlinked Psgr Trips (millions)	23.3	22.5	22.4	22.0	22.2	21.8
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)	1.18	1.28	1.36	1.24	1.14	1.18
System Performance	1998	1997	1996	1995	1994	1993
Congested Travel (% of peak VMT)	50	49	47	46	44	43
Congested System (% of lane-miles)	42	41	40	40	39	39
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	3,859	3,627	3,503	3,274	3,020	2,902
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	14	14	14	13	13	13
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	9,462	8,981	8,694	8,162	7,630	7,340
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	34	34	33	32	31	30
Rank	--	--	--	--	--	--
Travel Time Index	1.20	1.19	1.19	1.18	1.17	1.17
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Truck Commodity Value (\$ millions)						
Congestion Cost						
Total Cost (\$ millions)	138	130	124	113	102	95
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	489	482	466	435	405	390
Rank	--	--	--	--	--	--

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The Mobility Data for All 439 Areas Average

Inventory Measures	1992	1991	1990	1989	1988	1987
Urban Area Information						
Population (1000s)	446	455	458	454	447	447
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	201	202	200	197	192	190
Commuters (1000s)	181	181	180	177	173	171
Freeway						
Daily Vehicle-Miles of Travel (1000s)	3,154	3,086	3,088	2,991	2,851	2,722
Lane-Miles	263	257	261	258	253	262
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	3,672	3,633	3,643	3,567	3,477	3,398
Lane-Miles	845	849	891	890	874	845
Public Transportation						
Annual Psgr-Miles of Travel (millions)	106.1	112.0	116.0	117.0	113.6	109.7
Annual Unlinked Psgr Trips (millions)	22.4	23.3	24.5	24.8	23.8	24.5
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	1.23	1.11	1.09	1.00	1.01
System Performance	1992	1991	1990	1989	1988	1987
Congested Travel (% of peak VMT)	42	41	41	39	37	35
Congested System (% of lane-miles)	38	37	37	36	35	33
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	2,742	2,666	2,651	2,492	2,251	1,990
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	12	12	12	11	11	9
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	6,884	6,693	6,704	6,353	5,800	5,145
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	29	29	29	27	25	23
Rank	--	--	--	--	--	--
Travel Time Index	1.16	1.16	1.16	1.16	1.14	1.13
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	87	82	79	71	62	53
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	366	343	334	305	271	233
Rank	--	--	--	--	--	--

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The Mobility Data for All 439 Areas Average

Inventory Measures	1986	1985	1984	1983	1982
Urban Area Information					
Population (1000s)	446	427	428	427	446
Rank	--	--	--	--	--
Peak Travelers (1000s)	188	179	178	176	181
Commuters (1000s)	169	161	160	158	163
Freeway					
Daily Vehicle-Miles of Travel (1000s)	2,633	2,414	2,329	2,202	2,201
Lane-Miles	290	249	246	238	243
Arterial Streets					
Daily Vehicle-Miles of Travel (1000s)	3,456	3,216	3,095	3,105	3,088
Lane-Miles	846	803	790	777	796
Public Transportation					
Annual Psgr-Miles of Travel (millions)	112.3	114.8	114.6	115.3	122.3
Annual Unlinked Psgr Trips (millions)	25.3	25.9	27.1	27.3	28.9
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	1.29	1.30	1.33	1.39
System Performance	1986	1985	1984	1983	1982
Congested Travel (% of peak VMT)	33	30	28	26	26
Congested System (% of lane-miles)	32	30	29	27	27
Congested Time (number of "Rush Hours")	--	--	--	--	--
Annual Excess Fuel Consumed					
Total Fuel (1000 gallons)	1,797	1,488	1,301	1,183	1,146
Rank	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	9	7	6	6	6
Rank	--	--	--	--	--
Annual Delay					
Total Delay (1000s of person-hours)	4,736	3,989	3,498	3,220	3,117
Rank	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	21	19	17	16	14
Rank	--	--	--	--	--
Travel Time Index					
	1.12	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)	47	40	34	30	29
Rank	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	209	188	161	144	133
Rank	--	--	--	--	--

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**Benefits from Public Transportation Service and Operations Strategies in
All 439 Areas Average**

Operations Strategies	2010	2009	2008	2007
Freeway Ramp Metering				
Percent of Roadway Miles	20	20	20	20
Annual Delay Reduction (1000 hours)	90	88	85	106
Freeway Incident Management				
Cameras				
Percent of Roadway Miles	32	32	32	31
Service Patrols				
Percent of Roadway Miles	45	44	44	44
Annual Delay Reduction (1000 hours)	316	310	308	359
Arterial Signal Coordination				
Percent of Roadway Miles	39	38	38	37
Annual Delay Reduction (1000 hours)	58	57	55	61
Arterial Access Management				
Percent of Roadway Miles	19	19	19	19
Annual Delay Reduction (1000 hours)	196	193	183	207
HOV Lanes				
Daily Passenger-miles of travel (1000s)	49	49	49	47
HOV User Delay Savings	86	84	80	95
Added Congestion if Operations Treatments were Discontinued				
Annual Delay Reduction (1000 hours)	745	732	712	828
Annual Delay Saved per Peak Auto Commuter (hrs)	3	3	3	3
Annual Congestion Cost Savings (\$million)	15	15	14	16
Public Transportation Service	2010	2009	2008	2007
Existing Service				
Annual Passenger-miles of travel (million)	124	125	130	127
Unlinked Passenger Trips (million)	24	24	25	25
Added Congestion if Public Transportation Service were Discontinued				
Annual Increase				
Delay (1000 hours)	1,812	1,784	1,828	2,025
Delay per Peak Auto Commuter (hours)	4	4	4	4
Congestion Cost (\$million)	39	38	38	41

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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)	218,504	217,305	215,110	211,994	212,049	207,859
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	120,247	118,090	117,213	115,295	114,836	111,841
Commuters (1000s)	108,129	106,539	103,939	103,639	103,227	100,535
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,828,984	1,810,875	1,799,900	1,838,795	1,820,170	1,792,635
Lane-Miles	131,476	130,822	129,505	126,440	124,785	122,470
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,984,617	1,966,720	1,960,135	1,985,585	1,970,150	1,945,335
Lane-Miles	412,107	410,465	408,270	400,065	394,905	389,750
Public Transportation						
Annual Psgr-Miles of Travel (millions)	55,015.0	55,397.0	57,705.2	55,821.7	53,466.2	50,954.8
Annual Unlinked Psgr Trips (millions)	10,756.4	10,831.1	11,247.2	10,883.3	10,293.6	10,023.0
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	2.28	3.51	3.06	2.70	2.36
Diesel (\$/gallon)	3.01	2.62	4.18	3.44	2.87	2.53
System Performance	2010	2009	2008	2007	2006	2005
Congested Travel (% of peak VMT)	54	53	53	55	56	56
Congested System (% of lane-miles)	43	43	43	45	45	45
Congested Time (number of "Rush Hours")	4.24	4.20	4.25	4.77	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,943,335	1,917,411	1,878,120	2,204,711	2,178,880	2,158,892
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	14	14	14	17	17	17
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	4,823,259	4,798,019	4,621,689	5,194,026	5,251,720	5,222,776
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	34	34	34	38	39	39
Rank	--	--	--	--	--	--
Travel Time Index	1.20	1.20	1.20	1.24	1.24	1.25
Rank	--	--	--	--	--	--
Commuter Stress Index	1.30	1.29	1.29	1.36	--	--
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)	22,835	23,333	20,769	23,434	--	--
Truck Commodity Value (\$ millions)	7,033,004	6,937,798	6,843,881	6,751,235	--	--
Congestion Cost						
Total Cost (\$ millions)	100,892	99,265	95,754	104,867	101,823	96,777
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	713	711	710	780	747	729
Rank	--	--	--	--	--	--

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

The Mobility Data for All 439 Areas Sum

Inventory Measures	2004	2003	2002	2001	2000	1999
Urban Area Information						
Population (1000s)	203,348	198,205	191,631	188,050	187,087	181,857
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	108,798	105,437	100,629	97,226	95,262	91,176
Commuters (1000s)	97,799	94,778	90,456	87,397	85,632	81,959
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,736,310	1,672,235	1,585,630	1,539,925	1,499,300	1,458,850
Lane-Miles	118,280	114,660	109,210	107,105	105,845	104,605
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,895,230	1,816,445	1,735,820	1,688,285	1,667,235	1,628,040
Lane-Miles	376,220	363,460	346,185	340,680	337,100	331,685
Public Transportation						
Annual Psgr-Miles of Travel (millions)	50,094.3	49,115.3	48,618.5	49,584.5	48,193.2	46,037.5
Annual Unlinked Psgr Trips (millions)	9,674.6	9,619.5	9,614.1	9,679.8	9,370.7	9,115.6
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)	1.99	1.53	1.39	1.57	1.52	1.17
System Performance	2004	2003	2002	2001	2000	1999
Congested Travel (% of peak VMT)	56	55	55	54	52	52
Congested System (% of lane-miles)	45	45	45	44	43	43
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	2,056,194	1,929,952	1,816,688	1,712,045	1,626,411	1,551,975
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	17	16	16	16	14	14
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	4,960,891	4,658,657	4,389,742	4,155,276	3,974,303	3,797,005
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	39	37	37	36	35	35
Rank	--	--	--	--	--	--
Travel Time Index	1.24	1.23	1.23	1.22	1.21	1.21
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	86,794	77,932	71,923	67,100	62,552	56,487
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	672	623	602	581	553	522
Rank	--	--	--	--	--	--

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

The Mobility Data for All 439 Areas Sum

Inventory Measures	1998	1997	1996	1995	1994	1993
Urban Area Information						
Population (1000s)	179,819	177,220	173,559	171,102	168,630	166,419
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	88,826	86,183	83,086	80,677	78,324	76,133
Commuters (1000s)	79,846	77,470	74,686	72,521	70,406	68,436
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,411,048	1,369,240	1,333,440	1,293,965	1,251,140	1,207,670
Lane-Miles	103,234	102,260	101,445	100,805	99,455	97,515
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,583,900	1,563,810	1,541,130	1,502,165	1,460,965	1,412,350
Lane-Miles	326,040	324,095	319,765	316,095	311,910	306,200
Public Transportation						
Annual Psgr-Miles of Travel (millions)	44,323.3	42,642.7	42,329.7	41,220.5	40,194.8	38,646.0
Annual Unlinked Psgr Trips (millions)	8,695.9	8,526.8	8,280.9	8,160.9	8,212.7	8,037.5
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)	1.18	1.28	1.36	1.24	1.14	1.18
System Performance	1998	1997	1996	1995	1994	1993
Congested Travel (% of peak VMT)	50	49	47	46	44	43
Congested System (% of lane-miles)	42	41	40	40	39	39
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,442,612	1,373,526	1,296,413	1,212,522	1,116,802	1,070,900
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	14	14	14	13	13	13
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	3,537,357	3,401,023	3,217,502	3,022,859	2,821,770	2,708,283
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	34	34	33	32	31	30
Rank	--	--	--	--	--	--
Travel Time Index	1.20	1.19	1.19	1.18	1.17	1.17
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	51,514	49,361	45,909	41,717	37,625	35,190
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	489	482	466	435	405	390
Rank	--	--	--	--	--	--

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

The Mobility Data for All 439 Areas Sum

Inventory Measures	1992	1991	1990	1989	1988	1987
Urban Area Information						
Population (1000s)	166,239	163,841	160,748	158,786	156,076	152,932
Rank	--	--	--	--	--	--
Peak Travelers (1000s)	74,912	72,694	70,220	68,803	67,021	65,127
Commuters (1000s)	67,339	65,345	63,121	61,847	60,246	58,543
Freeway						
Daily Vehicle-Miles of Travel (1000s)	1,175,650	1,111,205	1,083,875	1,046,026	995,435	931,175
Lane-Miles	97,970	92,470	91,570	90,110	88,425	89,660
Arterial Streets						
Daily Vehicle-Miles of Travel (1000s)	1,368,818	1,308,305	1,278,645	1,247,490	1,214,115	1,162,530
Lane-Miles	314,805	305,765	312,795	311,370	305,160	289,255
Public Transportation						
Annual Psgr-Miles of Travel (millions)	39,564.2	40,337.0	40,722.4	40,904.5	39,666.2	37,516.1
Annual Unlinked Psgr Trips (millions)	8,340.3	8,389.6	8,591.6	8,662.0	8,313.2	8,388.4
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	1.12	1.03	1.03
Diesel (\$/gallon)	1.20	1.23	1.11	1.09	1.00	1.01
System Performance	1992	1991	1990	1989	1988	1987
Congested Travel (% of peak VMT)	42	41	41	39	37	35
Congested System (% of lane-miles)	38	37	37	36	35	33
Congested Time (number of "Rush Hours")	--	--	--	--	--	--
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	1,021,914	960,145	930,300	871,622	785,983	680,888
Rank	--	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	12	12	12	11	11	9
Rank	--	--	--	--	--	--
Annual Delay						
Total Delay (1000s of person-hours)	2,565,714	2,410,198	2,353,078	2,221,986	2,025,005	1,760,296
Rank	--	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	29	29	29	27	25	23
Rank	--	--	--	--	--	--
Travel Time Index	1.16	1.16	1.16	1.16	1.14	1.13
Rank	--	--	--	--	--	--
Commuter Stress Index						
Rank	--	--	--	--	--	--
Truck Congestion Cost (\$ millions)						
Rank	--	--	--	--	--	--
Truck Commodity Value (\$ millions)						
Rank	--	--	--	--	--	--
Congestion Cost						
Total Cost (\$ millions)	32,523	29,636	27,806	24,929	21,563	18,038
Rank	--	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	366	343	334	305	271	233
Rank	--	--	--	--	--	--

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

The Mobility Data for All 439 Areas Sum

Inventory Measures	1986	1985	1984	1983	1982
Urban Area Information					
Population (1000s)	149,341	147,308	145,426	143,920	141,447
Rank	--	--	--	--	--
Peak Travelers (1000s)	63,011	61,632	60,336	59,233	57,561
Commuters (1000s)	56,641	55,401	54,236	53,245	51,742
Freeway					
Daily Vehicle-Miles of Travel (1000s)	881,555	832,851	791,210	742,110	698,155
Lane-Miles	97,117	85,927	83,485	80,305	76,955
Arterial Streets					
Daily Vehicle-Miles of Travel (1000s)	1,157,210	1,109,550	1,051,495	1,046,695	979,220
Lane-Miles	283,230	277,005	268,415	261,810	252,455
Public Transportation					
Annual Psgr-Miles of Travel (millions)	37,590.5	39,616.3	38,932.4	38,869.0	38,780.3
Annual Unlinked Psgr Trips (millions)	8,480.9	8,940.1	9,203.4	9,188.1	9,166.6
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	1.29	1.30	1.33	1.39
System Performance	1986	1985	1984	1983	1982
Congested Travel (% of peak VMT)	33	30	28	26	26
Congested System (% of lane-miles)	32	30	29	27	27
Congested Time (number of "Rush Hours")	--	--	--	--	--
Annual Excess Fuel Consumed					
Total Fuel (1000 gallons)	601,792	513,470	441,973	398,738	363,349
Rank	--	--	--	--	--
Fuel per Peak Auto Commuter (gallons)	9	7	6	6	6
Rank	--	--	--	--	--
Annual Delay					
Total Delay (1000s of person-hours)	1,585,767	1,376,294	1,188,713	1,085,344	988,645
Rank	--	--	--	--	--
Delay per Peak Auto Commuter (pers-hrs)	21	19	17	16	14
Rank	--	--	--	--	--
Travel Time Index	1.12	1.11	1.10	1.09	1.09
Rank	--	--	--	--	--
Commuter Stress Index					
Rank	--	--	--	--	--
Truck Congestion Cost (\$ millions)					
Rank	--	--	--	--	--
Truck Commodity Value (\$ millions)					
Rank	--	--	--	--	--
Congestion Cost					
Total Cost (\$ millions)	15,659	13,810	11,586	10,173	9,097
Rank	--	--	--	--	--
Cost per Peak Auto Commuter (\$)	209	188	161	144	133
Rank	--	--	--	--	--

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

**Benefits from Public Transportation Service and Operations Strategies in
All 439 Areas Sum**

Operations Strategies	2010	2009	2008	2007
Freeway Ramp Metering				
Percent of Roadway Miles	20	20	20	20
Annual Delay Reduction (1000 hours)	39,452	38,620	37,376	46,543
Freeway Incident Management				
Cameras				
Percent of Roadway Miles	32	32	32	31
Service Patrols				
Percent of Roadway Miles	45	44	44	44
Annual Delay Reduction (1000 hours)	138,402	135,950	135,376	157,630
Arterial Signal Coordination				
Percent of Roadway Miles	39	38	38	37
Annual Delay Reduction (1000 hours)	25,636	25,199	24,254	26,741
Arterial Access Management				
Percent of Roadway Miles	19	19	19	19
Annual Delay Reduction (1000 hours)	85,936	84,640	80,236	90,728
HOV Lanes				
Daily Passenger-miles of travel (1000s)	21,232	21,293	21,293	20,688
HOV User Delay Savings	37,731	36,922	35,215	41,790
Added Congestion if Operations Treatments were Discontinued				
Annual Delay Reduction (1000 hours)	327,157	321,330	312,450	363,430
Annual Delay Saved per Peak Auto Commuter (hrs)	3	3	3	3
Annual Congestion Cost Savings (\$million)	6,875	6,587	6,447	7,266
Public Transportation Service	2010	2009	2008	2007
Existing Service				
Annual Passenger-miles of travel (million)	55,015	55,397	57,705	55,822
Unlinked Passenger Trips (million)	10,756	10,831	11,247	10,883
Added Congestion if Public Transportation Service were Discontinued				
Annual Increase				
Delay (1000 hours)	795,668	783,185	802,300	888,900
Delay per Peak Auto Commuter (hours)	4	4	4	4
Congestion Cost (\$million)	16,811	16,227	16,638	17,944

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