### Performance Measure Summary - Baton Rouge LA

There are several inventory and performance measures listed in the pages of this Urban Area Report for the years from 1982 to 2020. 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 Scorecard 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 that a 20-minute free-flow trip takes 26 minutes in the peak.

**Planning Time Index** - A travel time reliability measure that represents the total travel time that should be planned for a trip. Computed with the 95th percentile travel time it represents the amount of time that should be planned for a commute trip to be late for only 1 day a month. If it is computed with the 80th percentile travel time it represents the amount of time that should be planned for a trip to be late for only 1 day a week. A PTI of 2.00 means that for a 20-minute trip in light traffic, 40 minutes should be planned.

**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 traffic slowdowns 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 time periods with lighter traffic volumes in the INRIX speed database. They are used as the national comparison thresholds. Other speed thresholds may be appropriate for urban project evaluations or sub-region studies.

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

**Congestion Cost** - Value of travel delay for 2020 (estimated at \$20.17 per hour of person travel and \$55.24 per hour of truck time) and excess fuel consumption 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), so increases include both new growth and development that was previously in areas designated as rural.

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

Annual Greenhouse Gases (CO2) Produced -Tons of CO2 produced from all vehicle travel.

Excess Greenhouse Gases (CO2) Produced due to Congestion-Tons of CO2 produced due to congested portion of travel. The excess CO2 is a subset of the total CO2 produced.

Inventory Measures	2020	2019	2018	2017	2016	2015
Urban Area Information						
Population (1000s)	635	635	635	640	640	635
Rank	66	66	66	65	65	65
Commuters (1000s)	344	344	344	347	345	342
Daily Vehicle-Miles of Travel (1000s)						
Freeway	5,627	6,315	5,870	5,711	5,743	5,503
Arterial Streets	7,123	7,994	8,472	8,514	8,715	8,673
	7,123	7,774	0,472	0,514	0,713	0,073
Cost Components Value of Time (\$/hour)	20.17	19.14	18.71	18.12	17.91	17.69
Commercial Cost (\$/hour)	55.24	61.03	54.71	52.14	50.20	46.87
Gasoline (\$/gallon)	2.09	2.30	2.62	2.16	1.99	2.07
Diesel (\$/gallon)	2.09	2.72	2.02	2.32	2.13	2.35
System Performance	2020	2019	2018	2017	2016	2015
Congested Travel (% of peak VMT)				24.6		
Congested System (% of lane-miles)				14.8		
Congested Time (number of "Rush Hours")				3.4		
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	4,892	12,196	11,889	11,679	11,551	11,398
Rank	59	50	50	50	50	50
Fuel per Peak Auto Commuter (gallons)	11	26	26	25	25	25
Rank	51	16	16	20	16	15
Annual Delay						
Total Delay (1000s of person-hours)	10,151	25,307	25,113	24,362	23,924	23,403
Rank	67	54	53	54	54	54
Delay per Auto Commuter (pers-hrs)	24	61	60	58	56	55
Rank	63	22	23	24	27	24
Travel Time Index	1.05	1.22	1.22	1.23	1.23	1.23
Rank	85	34	34	30	29	29
Commuter Stress Index	1.06	1.27	1.27	1.26		
Rank	91	35	32	32		
Freeway Planning Time Index (95th Pctile)		1.78	1.83	1.84		
Rank		27	23	22		
Congestion Cost						
Total Cost (\$ millions)	238	591	576	548	528	507
Rank	65	52	52	53	53	52
Cost per Auto Commuter (\$)	512	1,270	1,238	1,168	1,155	1,123
Rank	59	22	25	28	26	25
Truck Congestion						
Annual Person-Hours of Delay (000)	805	2,049	1,955	1,891	1,858	1,816
Rank	50	40	41	41	41	41
Annual Gallons of Wasted Fuel (000)	1,376	3,503	3,402	3,288	3,253	3,208
Rank	50	39	42	41	40	40
Annual Congestion Cost (\$ million)	43	121	107	99	94	87
Rank	50	37	42	41	41	41
Annual Greenhouse Gases (CO2) Produced						
Excess Due to Congestion (tons)	49,911	124,432				
Rank	59	50				
Due to All Travel (tons)	1,202,458	2,997,801				
Rank	73	58				
1 1001111	, , ,	50				
Truck Annual Greenhouse Coses (CO2) Produced		1				
Truck Annual Greenhouse Gases (CO2) Produced  Every Due to Truck Congestion (tons)	15 0/1	28 207			I	
Excess Due to Truck Congestion (tons)	15,041	38,297				
Excess Due to Truck Congestion (tons) Rank	50	39		 		
Excess Due to Truck Congestion (tons)				  		 

<sup>\*</sup> Note: Zeroes in the table reflect values less than 0.5.

Inventory Measures	2014	2013	2012	2011	2010	2009
Urban Area Information						
Population (1000s)	630	615	610	605	600	595
Rank	65	67	67	68	68	68
Commuters (1000s)	338	323	320	317	313	309
Daily Vehicle-Miles of Travel (1000s)						
Freeway	5,108	4,922	4,745	4,858	4,714	4,500
Arterial Streets	8,229	8,388	8,300	8,012	7,973	7,800
Cost Components						
Value of Time (\$/hour)	17.67	17.39	17.14	16.79	16.28	16.01
Commercial Cost (\$/hour)	44.82	41.23	39.66	44.62	42.50	41.83
Gasoline (\$/gallon)	3.14	3.34	3.35	3.28	2.61	2.17
Diesel (\$/gallon)	3.48	3.75	3.74	3.56	2.84	2.46
System Performance	2014	2013	2012	2011	2010	2009
Congested Travel (% of peak VMT)						
Congested System (% of lane-miles)						
Congested Time (number of "Rush Hours")						
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	11,144	10,619	10,104	9,877	9,824	9,284
Rank	50	51	52	52	52	52
Fuel per Peak Auto Commuter (gallons)	25	23	22	21	22	19
Rank	15	17	21	25	20	27
Annual Delay						
Total Delay (1000s of person-hours)	22,483	21,045	19,663	19,222	18,768	17,405
Rank	54	55	57	57	56	57
Delay per Auto Commuter (pers-hrs)	52	50	48	47	46	43
Rank	28	28	29	28	26	31
Travel Time Index	1.22	1.22	1.21	1.21	1.21	1.20
Rank	33	31	34	33	33	36
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	497	457	421	411	382	345
Rank	52	54	55	54	55	55
Cost per Auto Commuter (\$)	1,073	1,013	958	968	975	920
Rank	25	30	31	30	29	29
Truck Congestion						
Annual Person-Hours of Delay (000)	1,745	1,634	1,526	1,492	1,458	1,351
Rank	41	41	42	42	42	44
Annual Gallons of Wasted Fuel (000)	3,138	2,990	2,844	2,780	2,766	2,614
Rank	40	41	41	41	41	41
Annual Congestion Cost (\$ million)	84	74	67	72	66	59
Rank	41	42	42	42	42	43
Annual Greenhouse Gases (CO2) Produced						
Excess Due to Congestion (tons)						
Rank						
Due to All Travel (tons)						
Rank						
Truck Annual Greenhouse Gases (CO2) Produced						
Excess Due to Truck Congestion (tons)						
Rank						
Due to Truck Travel (tons)						
Rank						

<sup>\*</sup> Note: Zeroes in the table reflect values less than 0.5.

Inventory Measures	2008	2007	2006	2005	2004	2003
Urban Area Information						
Population (1000s)	590	585	570	495	485	475
Rank	68	67	67	71	71	72
Commuters (1000s)	306	301	292	252	245	239
Daily Vehicle-Miles of Travel (1000s)						
Freeway	4,350	4,280	4,190	4,055	3,830	3,710
Arterial Streets	7,700	7,675	7,505	7,345	7,160	6,800
Cost Components	7,700	7,070	7,000	7,0 10	7,100	0,000
Value of Time (\$/hour)	16.07	15.47	15.06	14.58	14.10	13.73
Commercial Cost (\$/hour)	40.77	39.30	37.88	36.51	35.19	33.92
Gasoline (\$/gallon)	3.35	2.92	2.56	2.23	1.87	1.46
Diesel (\$/gallon)	4.04	3.28	2.74	2.40	1.85	1.44
System Performance	2008	2007	2006	2005	2004	2003
						2003
Congested Travel (% of peak VMT)						
Congested System (% of lane-miles)						
Congested Time (number of "Rush Hours")						
Annual Excess Fuel Consumed				, , , ,		
Total Fuel (1000 gallons)	9,316	8,923	8,444	6,621	6,073	5,840
Rank	52	52	54	60	64	63
Fuel per Peak Auto Commuter (gallons)	20	20	23	15	13	13
Rank	31	28	14	64	80	74
Annual Delay						
Total Delay (1000s of person-hours)	16,633	15,932	15,076	11,821	10,844	10,426
Rank	57	58	58	66	72	71
Delay per Auto Commuter (pers-hrs)	40	39	38	35	32	32
Rank	38	44	45	59	73	69
Travel Time Index	1.20	1.20	1.19	1.17	1.16	1.16
Rank	38	38	39	49	55	52
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	344	313	285	215	188	174
Rank	56	58	58	65	69	70
Cost per Auto Commuter (\$)	871	866	843	680	648	639
Rank	36	41	43	66	70	71
Truck Congestion						
Annual Person-Hours of Delay (000)	1,291	1,237	1,170	918	842	810
Rank	43	44	44	47	51	51
Annual Gallons of Wasted Fuel (000)	2,623	2,512	2,377	1,864	1,710	1,644
Rank	43	43	43	50	52	53
Annual Congestion Cost (\$ million)	60	54	48	36	31	28
Rank	43	44	44	47	51	51
Annual Greenhouse Gases (CO2) Produced					, ,	
Excess Due to Congestion (tons)						
Rank						
Due to All Travel (tons)						
Rank						
Truck Annual Greenhouse Gases (CO2) Produced	1					
Excess Due to Truck Congestion (tons)						
Excess Due to Truck Congestion (tons) Rank		 			 	
Excess Due to Truck Congestion (tons)		  		  		  

<sup>\*</sup> Note: Zeroes in the table reflect values less than 0.5.

Inventory Measures	2002	2001	2000	1999	1998	1997
Urban Area Information						
Population (1000s)	465	460	455	445	430	420
Rank	72	71	71	70	71	71
Commuters (1000s)	231	226	220	213	203	196
Daily Vehicle-Miles of Travel (1000s)	-					
Freeway	3,600	3,460	3,325	3,210	3,100	3,000
Arterial Streets	6,520	6,350	6,100	5,850	5,660	5,495
Cost Components	0,020	0,220	0,100	2,000	2,000	5,.,5
Value of Time (\$/hour)	13.43	13.22	12.85	12.43	12.17	11.98
Commercial Cost (\$/hour)	32.69	31.51	30.38	29.28	28.89	28.50
Gasoline (\$/gallon)	1.33	1.43	1.49	1.08	1.04	1.17
Diesel (\$\(\frac{9}{gallon}\)	1.31	1.44	1.43	1.07	1.12	1.23
System Performance	2002	2001	2000	1999	1998	1997
Congested Travel (% of peak VMT)						
Congested System (% of lane-miles)						
Congested Time (number of "Rush Hours")						
Annual Excess Fuel Consumed	-					
Total Fuel (1000 gallons)	5,507	5,253	5,056	4,815	4,489	4,164
Rank	66	66	66	64	63	64
Fuel per Peak Auto Commuter (gallons)	12	11	11	11	10	10
Rank	78	78	74	72	73	66
Annual Delay	, ,	, ,	, .	,_		
Total Delay (1000s of person-hours)	9,831	9,379	9,027	8,597	8,015	7,434
Rank	71	71	71	71	70	70
Delay per Auto Commuter (pers-hrs)	31	30	29	29	29	28
Rank	72	71	71	67	64	63
Travel Time Index	1.16	1.15	1.15	1.15	1.14	1.14
Rank	50	55	53	50	53	46
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	159	150	140	128	117	107
Rank	69	70	70	69	69	69
Cost per Auto Commuter (\$)	616	598	591	580	554	520
Rank	73	73	72	71	71	70
Truck Congestion						
Annual Person-Hours of Delay (000)	764	729	700	667	622	578
Rank	51	51	50	50	50	50
Annual Gallons of Wasted Fuel (000)	1,550	1,479	1,424	1,355	1,264	1,172
Rank	54	52	52	52	53	51
Annual Congestion Cost (\$ million)	25	23	22	20	18	17
Rank	51	51	50	49	50	50
Annual Greenhouse Gases (CO2) Produced						
Excess Due to Congestion (tons)						
Rank						
Due to All Travel (tons)						
					I	
Rank						
Rank Truck Annual Greenhouse Gases (CO2) Produced						
Truck Annual Greenhouse Gases (CO2) Produced  Excess Due to Truck Congestion (tons)  Rank		  				 
Truck Annual Greenhouse Gases (CO2) Produced Excess Due to Truck Congestion (tons)		  		  		  

<sup>\*</sup> Note: Zeroes in the table reflect values less than 0.5.

Population (1006s)	Inventory Measures	1996	1995	1994	1993	1992	1991
Population (1001s)   A15   A11   A10   A50	Urban Area Information						
Rank		415	410	405	395	380	370
Daily Vehicle-Miles of Travel (1000b)   Freeway   2,890   2,500   2,605   2,406   2,305   2,400   2,365   2,400   2,265   2,200   2,266   2,200   2,		71	71	71	71	72	72
Treeway	Commuters (1000s)	191	187	182	175	167	160
Treeway	Daily Vehicle-Miles of Travel (1000s)						
Cost Components		2,890	2,750	2,635	2,520	2,400	2,365
Manua for Firms (shour)	Arterial Streets	5,300	5,110	4,980	4,800	4,550	4,315
Manua for Firms (shour)	Cost Components						
Sasabine (Sgallon)	-	11.71	11.37	11.06	10.78	10.47	10.17
Dissel (S'gallon)   1.29   1.29   1.20   1.10   1.10   1.20   1.20	Commercial Cost (\$/hour)	28.12	27.75	27.38	27.02	26.66	26.30
System Performanace	Gasoline (\$/gallon)	1.22	1.16	1.06	1.12	1.12	1.12
Congested Travel (% of peak VWT)	Diesel (\$/gallon)	1.29	1.23	1.13	1.18	1.20	1.21
Congested System (% of lane-miles)	System Performance	1996	1995	1994	1993	1992	1991
Congested Time (number of "Rush Hours")	Congested Travel (% of peak VMT)						
Total Fuel (1000 gallons)   3,855   3,628   3,389   3,119   2,850   2,681   Rank   65   65   65   65   64   64   63   63   Fuel per Peak Auto Commuter (gallons)   9   9   8   8   6   7   7   7   7   7   7   7   7   7	Congested System (% of lane-miles)						
Total Fuel (1000 gallons)   3,855   3,628   3,389   3,119   2,850   2,681   Rank   665   65   65   64   64   64   63   Fuel per Peak Auto Commuter (gallons)   9   9   8   8   6   6   77   Rank   69   59   65   58   69   57   78   78   78   78   70   70   70   7	Congested Time (number of "Rush Hours")						
Rank         65         65         65         64         64         63           Fuel per Peak Auto Commuter (gallons)         9         9         8         8         6         7           Rank         69         59         65         58         69         57           Annual Detay         8         6,883         6,477         6,051         5,569         5,089         4,787           Rank         70         70         70         70         50         68         6         25         24         23         22         21         21         28         24         23         22         21         21         22         21         21         3         22         21         21         3         22         21         21         3         22         22         21         3         22         22         21         3         22         22         21         3         22         22         21         3         22         24         23         22         21         3         2         24         23         22         21         1         1         1         1         1         1         1         1<	Annual Excess Fuel Consumed						
Fuel per Peak Auto Commuter (gallons)	Total Fuel (1000 gallons)	3,855	3,628	3,389	3,119	2,850	2,681
Rank         69         59         65         58         69         57           Annual Delay         6,883         6,477         6,051         5,569         5,089         4,787           Rank         70         70         70         70         70         70         68           Delay per Auto Commuter (pers-hrs)         26         25         24         23         22         21           Rank         67         65         65         64         62         61           Travel Time Index         1.13         1.12         1.12         1.11 <td>Rank</td> <td>65</td> <td>65</td> <td>65</td> <td>64</td> <td>64</td> <td>63</td>	Rank	65	65	65	64	64	63
Total Delay (1000s of person-hours)	Fuel per Peak Auto Commuter (gallons)	1 1		8	_	6	
Total Delay (1000s of person-hours)	Rank	69	59	65	58	69	57
Rank         70         70         70         70         68           Delay per Auto Commuter (pers-hrs)         26         25         24         23         22         21           Rank         67         65         65         64         62         61           Travel Time Index         1.13         1.12         1.12         1.11         1.11         1.10           Rank         50         57         50         52         49         51           Commuter Stress Index	Annual Delay						
Delay per Auto Commuter (pers-hrs)   26	Total Delay (1000s of person-hours)	6,883	6,477	6,051	5,569	5,089	4,787
Rank				70			68
Travel Time Index							
Rank         50         57         50         52         49         51           Commuter Stress Index	Rank	67	65	65	64	62	61
Commuter Stress Index		1.13	1.12	1.12	1.11	1.11	1.10
Rank		50	57	50	52	49	51
Freeway Planning Time Index (95th Petile)							
Rank   -							
Congestion Cost   Total Cost (\$ millions)   97   89   81   73   65   60     Rank   70   69   69   69   68   66     Cost per Auto Commuter (\$)   495   478   459   434   411   396     Rank   70   70   69   70   67   67     Rank   70   70   69   70   67   67     Truck Congestion							
Total Cost (\$ millions)							
Rank       70       69       69       69       68       66         Cost per Auto Commuter (\$)       495       478       459       434       411       396         Rank       70       70       69       70       67       67         Truck Congestion       80       60       70       67       67         Annual Person-Hours of Delay (000)       535       503       470       432       395       372         Rank       50       50       50       50       50       51       49         Annual Gallons of Wasted Fuel (000)       1,085       1,021       954       878       802       755         Rank       53<			00				
Cost per Auto Commuter (\$)         495         478         459         434         411         396           Rank         70         70         69         70         67         67           Truck Congestion           Annual Person-Hours of Delay (000)         535         503         470         432         395         372           Rank         50         50         50         50         51         49           Annual Gallons of Wasted Fuel (000)         1,085         1,021         954         878         802         755           Rank         53         54         49         49 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Rank         70         70         69         70         67         67           Truck Congestion         Bank         50         503         470         432         395         372           Rank         50         50         50         50         51         49           Annual Gallons of Wasted Fuel (000)         1,085         1,021         954         878         802         755           Rank         53         49         49         49         49         49         49         49         49         49         49         49         49         49         <							
Truck Congestion         Annual Person-Hours of Delay (000)         535         503         470         432         395         372           Rank         50         50         50         50         51         49           Annual Gallons of Wasted Fuel (000)         1,085         1,021         954         878         802         755           Rank         53         54         49         49         49							
Annual Person-Hours of Delay (000) 535 503 470 432 395 372 Rank 50 50 50 50 50 51 49 Annual Gallons of Wasted Fuel (000) 1,085 1,021 954 878 802 755 Rank 53 53 53 53 53 53 53 Annual Congestion Cost (\$ million) 15 14 13 12 11 10 Rank 51 50 48 49 49 49 49  Annual Greenhouse Gases (CO2) Produced  Excess Due to Congestion (tons) Rank		/0	70	09	70	07	07
Rank       50       50       50       50       51       49         Annual Gallons of Wasted Fuel (000)       1,085       1,021       954       878       802       755         Rank       53       53       53       53       53       53       53       53         Annual Congestion Cost (\$ million)       15       14       13       12       11       10		525	502	470	422	205	272
Annual Gallons of Wasted Fuel (000) 1,085 1,021 954 878 802 755 Rank 53 53 53 53 53 53 Annual Congestion Cost (\$ million) 15 14 13 12 11 10 Rank 51 50 48 49 49 49  Annual Greenhouse Gases (CO2) Produced  Excess Due to Congestion (tons)							
Rank       53       53       53       53       53       53         Annual Congestion Cost (\$ million)       15       14       13       12       11       10         Rank       51       50       48       49       49       49         Annual Greenhouse Gases (CO2) Produced							
Annual Congestion Cost (\$ million) 15 14 13 12 11 10 Rank 51 50 48 49 49 49 49 49 49 49 49 49 49 49 49 49							
Rank       51       50       48       49       49       49         Annual Greenhouse Gases (CO2) Produced       Excess Due to Congestion (tons)         Excess Due to Congestion (tons)   <							
Annual Greenhouse Gases (CO2) Produced  Excess Due to Congestion (tons)							
Excess Due to Congestion (tons)		31	2.0	10		.,,	
Rank  <							
Due to All Travel (tons)	• • • • • • • • • • • • • • • • • • • •						
Rank  <							
Truck Annual Greenhouse Gases (CO2) Produced         Excess Due to Truck Congestion (tons) <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Excess Due to Truck Congestion (tons)							
Rank Due to Truck Travel (tons)							
Due to Truck Travel (tons)							
	i i						

<sup>\*</sup> Note: Zeroes in the table reflect values less than 0.5.

Inventory Measures	1990	1989	1988	1987	1986	1985
Urban Area Information						
Population (1000s)	350	350	350	350	350	350
Rank	73	73	72	72	72	71
Commuters (1000s)	150	148	147	146	145	144
Daily Vehicle-Miles of Travel (1000s)						
Freeway	2,305	2,125	2,190	2,165	2,120	2,085
Arterial Streets	4,095	3,985	3,730	3,635	3,590	3,740
Cost Components						
Value of Time (\$/hour)	9.75	9.25	8.83	8.48	8.18	8.03
Commercial Cost (\$/hour)	25.95	25.60	25.26	24.93	24.60	24.27
Gasoline (\$/gallon)	1.08	1.09	1.01	1.10	0.98	1.29
Diesel (\$/gallon)	1.08	1.00	0.92	0.92	0.90	1.18
System Performance	1990	1989	1988	1987	1986	1985
Congested Travel (% of peak VMT)						
Congested System (% of lane-miles)						
Congested Time (number of "Rush Hours")						
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	2,461	2,412	2,330	2,166	2,073	1,898
Rank	62	61	60	60	60	58
Fuel per Peak Auto Commuter (gallons)	5	5	5	5	5	5
Rank	72	63	58	48	40	32
Annual Delay						
Total Delay (1000s of person-hours)	4,394	4,308	4,160	3,866	3,701	3,390
Rank	67	66	64	64	62	62
Delay per Auto Commuter (pers-hrs)	21	20	20	18	18	16
Rank	52	48	44	48	42	45
Travel Time Index	1.10	1.10	1.10	1.09	1.09	1.08
Rank	47	44	41	41	39	40
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	53	49	46	41	38	35
Rank	66	65	61	61	61	61
Cost per Auto Commuter (\$)	380	398	406	391	387	361
Rank	67	60	56	55	51	49
Truck Congestion	244	22.5	222	200	205	271
Annual Person-Hours of Delay (000)	341	335	322	300	287	264
Rank	48	45 670	45	45	45	45 535
Annual Gallons of Wasted Fuel (000) Rank	692 50	679 46	656	609 44	583 44	535
Rank Annual Congestion Cost (\$ million)	50	46 9	8	8	44   7	44 7
Rank	48	43	45	42	43	41
Annual Greenhouse Gases (CO2) Produced	10	7.7	7.3	72	7.3	71
Excess Due to Congestion (tons)						
Rank				 		
Due to All Travel (tons)						
Rank						
Truck Annual Greenhouse Gases (CO2) Produced						
Excess Due to Truck Congestion (tons)						
Rank						
Due to Truck Travel (tons)						
		- 1	( 1		( 1	_
Rank						

<sup>\*</sup> Note: Zeroes in the table reflect values less than 0.5.

Population (1000s)	Inventory Measures	1984	1983	1982
Population (1000s)	·			
Rank         70         69         68           Commuters (1000s)         143         142         140           Daily Vehicle-Miles of Travel (1000s)         Treeway         2,050         2,015         2,000           Arterial Streets         3,630         3,505         3,450           Cost Components         Value of Time (Shour)         7,75         7,43         7,20           Commercial Cost (Sybour)         23,94         23,63         23,31           Gasoline (Sygallon)         1,19         1,22         1,22           Diesel (Sygallon)         1,19         1,22         1,28           System Performance         1984         1983         1982           Congested Travel (% of peak VMT)		350	350	350
Commuters (1000s)				
Daily Vehicle-Miles of Travel (1000s)   Freeway   2,050   2,015   2,000     Arterial Streets   3,630   3,505   3,450     Cost Components				
Freeway		7.0		1.0
Arterial Streets		2 050	2 015	2 000
Value of Time (Shour)	,			
Value of Time (\$/hour)         7.75         7.43         7.20           Commercial Cost (\$/hour)         23.94         23.63         23.31           Gasoline (\$/gallon)         1.130         1.33         1.39           Disesel (\$/gallon)         1.19         1.22         1.28           System Performance         1984         1983         1982           Congested Travel (% of peak VMT)         -         -         -         -           Congested Time (number of "Rush Hours")         -         -         -         -           Congested Time (number of "Rush Hours")         -         -         -         -         -           Congested Time (number of "Rush Hours")         - <td></td> <td>3,030</td> <td>3,505</td> <td>3,130</td>		3,030	3,505	3,130
Commercial Cost (\$\setsimes\$)   23.94   23.63   23.31   Gasoline (\$\setsimes\$)   1.10   1.22   1.28   1.28   1.29   1.22   1.28   1.28   1.29   1.28   1.28   1.29   1.28   1.2	_	7 75	7 43	7.20
Gasoline (S/gallon)   1.30   1.33   1.39   1.32   1.28				
Diesel (S/gallon)				
System Performance				
Congested Travel (% of peak VMT)				
Congested System (% of lane-miles)				
Congested Time (number of "Rush Hours")				
Annual Excess Fuel Consumed   Total Fuel (1000 gallons)   1,653   1,385   1,371   Rank   58   61   59   Fuel per Peak Auto Commuter (gallons)   5   3   3   3   Rank   27   46   34   34   34   34   34   34   34				
Total Fuel (1000 gallons)				
Rank		1 653	1 395	1 271
Fuel per Peak Auto Commuter (gallons)   S   3   3   3   3   3   3   4   4   3   4   4		'		
Rank				
Total Delay   Total Delay (1000s of person-hours)   2,951   2,473   2,447   Rank   62   63   63   63   63   63   64   64   64			-	-
Total Delay (1000s of person-hours)   2,951   2,473   2,447   Rank   62   63   63   63   63   63   63   64   62   63   63   63   63   64   62   63   63   63   64   62   63   63   63   64   64   64   64   64		27	10	31
Rank   62   63   63   63     Delay per Auto Commuter (pers-hrs)   14   12   12     Rank   48   51   47     Travel Time Index   1.07   1.06   1.06     Rank   42   45   42     Commuter Stress Index       Rank       Rank       Rank       Rank       Rank       Rank       Congestion Cost     Total Cost (\$\$\text{millions}\$)   30   24   23     Rank   60   63   60     Cost per Auto Commuter (\$\$)   324   292   288     Rank   52   56   50     Truck Congestion     Annual Person-Hours of Delay (000)   229   192   191     Rank   45   46   45     Annual Gallons of Wasted Fuel (000)   465   390   385     Rank   45   46   45     Annual Greenhouse Gases (CO2) Produced     Excess Due to Congestion (tons)       Rank       Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)       Rank         Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)       Rank         Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Rank           Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Rank           Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Rank           Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Truck Annual Greenhouse Gases (CO2) Produced     Excess Due to Truck Congestion (tons)         Truck Annual Greenhouse Gases (CO2) Pro	•	2 051	2 473	2 447
Delay per Auto Commuter (pers-hrs)		1	´	
Rank				
Travel Time Index				
Rank       42       45       42         Commuter Stress Index            Rank            Freeway Planning Time Index (95th Pctile)            Rank            Congestion Cost            Total Cost (\$ millions)       30       24       23         Rank       60       63       60         Cost per Auto Commuter (\$)       324       292       288         Rank       52       56       50         Truck Congestion            Annual Person-Hours of Delay (000)       229       192       191         Rank       45       46       45         Annual Gallons of Wasted Fuel (000)       465       390       385         Rank       45       46       45         Annual Congestion Cost (\$ million)       6       5       5         Annual Greenhouse Gases (CO2) Produced            Excess Due to Congestion (tons)            Rank		-		
Commuter Stress Index				
Rank		42	43	42
Treeway Planning Time Index (95th Pctile)				
Rank				
Congestion Cost         30         24         23           Rank         60         63         60           Cost per Auto Commuter (\$)         324         292         288           Rank         52         56         50           Truck Congestion           Annual Person-Hours of Delay (000)         229         192         191           Rank         45         46         45           Annual Gallons of Wasted Fuel (000)         465         390         385           Rank         45         46         45           Annual Congestion Cost (\$ million)         6         5         5           Rank         42         45         40           Annual Greenhouse Gases (CO2) Produced           Excess Due to Congestion (tons)              Rank              Truck Annual Greenhouse Gases (CO2) Produced              Excess Due to Truck Congestion (tons)              Rank	- 1			
Total Cost (\$ millions)   30   24   23   Rank   60   63   60				
Rank       60       63       60         Cost per Auto Commuter (\$)       324       292       288         Rank       52       56       50         Truck Congestion         Annual Person-Hours of Delay (000)       229       192       191         Rank       45       46       45         Annual Gallons of Wasted Fuel (000)       465       390       385         Rank       45       46       45         Annual Congestion Cost (\$ million)       6       5       5         Rank       42       45       40         Annual Greenhouse Gases (CO2) Produced         Excess Due to Congestion (tons)            Rank            Truck Annual Greenhouse Gases (CO2) Produced            Excess Due to Truck Congestion (tons)            Rank            Coulomb            Annual Greenhouse Gases (CO2) Produced            Excess Due to Truck Congestion (tons)            <	-	30	24	23
Cost per Auto Commuter (\$)   324   292   288   Rank   52   56   50   50				
Rank   52   56   50				
Composition	•			
Annual Person-Hours of Delay (000)  Rank  Annual Gallons of Wasted Fuel (000)  Rank  Annual Gallons of Wasted Fuel (000)  Rank  Annual Congestion Cost (\$ million)  Rank  Annual Greenhouse Gases (CO2) Produced  Excess Due to Congestion (tons)  Rank   Rank   Truck Annual Greenhouse Gases (CO2) Produced  Excess Due to Truck Congestion (tons)   Rank   Truck Annual Greenhouse Gases (CO2) Produced		32	30	
Rank       45       46       45         Annual Gallons of Wasted Fuel (000)       465       390       385         Rank       45       46       45         Annual Congestion Cost (\$ million)       6       5       5         Rank       42       45       40         Annual Greenhouse Gases (CO2) Produced            Excess Due to Congestion (tons)            Rank            Due to All Travel (tons)            Rank            Truck Annual Greenhouse Gases (CO2) Produced            Excess Due to Truck Congestion (tons)            Rank	e e	220	192	191
Annual Gallons of Wasted Fuel (000)	* 1			
Rank       45       46       45         Annual Congestion Cost (\$ million)       6       5       5         Rank       42       45       40         Annual Greenhouse Gases (CO2) Produced             Rank              Due to All Travel (tons)             Rank             Truck Annual Greenhouse Gases (CO2) Produced             Excess Due to Truck Congestion (tons)             Rank				
Annual Congestion Cost (\$ million) 6 5 5  Rank 42 45 40  Annual Greenhouse Gases (CO2) Produced  Excess Due to Congestion (tons)  Rank  Truck Annual Greenhouse Gases (CO2) Produced  Excess Due to Truck Congestion (tons)  Rank				
Rank       42       45       40         Annual Greenhouse Gases (CO2) Produced			-	
Excess Due to Congestion (tons)				
Excess Due to Congestion (tons)	Annual Greenhouse Gases (CO2) Produced			
Rank				
Due to All Travel (tons)				
Rank				
Truck Annual Greenhouse Gases (CO2) Produced  Excess Due to Truck Congestion (tons)  Rank				
Excess Due to Truck Congestion (tons) Rank				
Rank				
	_ ` ` '			
Rank				

<sup>\*</sup> Note: Zeroes in the table reflect values less than 0.5.