#### **Performance Measure Summary - Rochester NY**

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)	725	725	725	725	725	720
Rank	61	61	61	61	61	61
Commuters (1000s)	359	359	359	359	358	356
Daily Vehicle-Miles of Travel (1000s)						
Freeway	4,890	6,342	6,386	6,264	6,005	5,940
Arterial Streets	5,237	6,792	6,784	6,780	6,714	6,479
Cost Components						
Value of Time (\$/hour)	20.17	19.14	18.71	18.12	17.91	17.69
Commercial Cost (\$/hour)	55.24	49.49	54.71	52.14	50.20	46.87
Gasoline (\$/gallon)	2.55	2.76	3.00	2.48	2.33	2.51
Diesel (\$/gallon)	3.08	3.17	3.38	2.70	2.49	2.88
System Performance	2020	2019	2018	2017	2016	2015
Congested Travel (% of peak VMT)				12.4		
Congested System (% of lane-miles)				8.4		
Congested Time (number of "Rush Hours")				0.9		
Annual Excess Fuel Consumed						
Total Fuel (1000 gallons)	4,401	7,115	6,974	6,892	6,899	6,757
Rank	63	68	69	67	67	67
Fuel per Peak Auto Commuter (gallons)	13	21	20	20	20	19
Rank	28	43	47	47	47	50
Annual Delay						
Total Delay (1000s of person-hours)	10,199	16,489	16,271	15,986	15,746	15,159
Rank	66	70	70	70	68	68
Delay per Auto Commuter (pers-hrs)	26	41	41	40	40	39
Rank	47	75	72	75	72	71
Travel Time Index	1.09	1.16	1.16	1.16	1.16	1.16
Rank	40	59	57	59	58	57
Commuter Stress Index	1.10	1.17	1.17	1.17		
Rank	40	67	67	66		
Freeway Planning Time Index (95th Pctile)		1.25	1.27	1.26		
Rank		80	72	82		
Congestion Cost						
Total Cost (\$ millions)	230	356	355	342	332	316
Rank	67	70	69	70	68	68
Cost per Auto Commuter (\$)	545	843	841	811	804	769
Rank	50	62	62	62	61	64
Truck Congestion						
Annual Person-Hours of Delay (000)	447	658	648	635	626	602
Rank	72	73	73	73	73	73
Annual Gallons of Wasted Fuel (000)	741	1,090	1,094	1,068	1,069	1,047
Rank	75	77	75	75	75	75
Annual Congestion Cost (\$ million)	24	32	36	34	32	29
Rank	70	76	70	72	70	72
Annual Greenhouse Gases (CO2) Produced					ı	
Excess Due to Congestion (tons)	43,660	70,587				
Rank	63	68				
Due to All Travel (tons)	1,447,501	2,340,237				
Rank	66	70				
Truck Annual Greenhouse Gases (CO2) Produced	_				ı	
Excess Due to Truck Congestion (tons)	8,084	11,893				
Rank	74	76				
Due to Truck Travel (tons)	263,373	387,468				
Rank	77	79				

<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)	720	720	720	720	720	720
Rank	61	60	59	59	58	58
Commuters (1000s)	356	363	363	362	361	360
Daily Vehicle-Miles of Travel (1000s)						
Freeway	6,122	5,832	5,815	6,302	6,294	6,050
Arterial Streets	6,501	6,404	6,365	6,588	6,579	6,300
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)	3.63	3.79	3.75	3.65	2.95	2.47
Diesel (\$/gallon)	3.92	4.20	4.17	3.99	3.21	2.90
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)	6,637	6,587	6,540	6,492	6,483	6,451
Rank	67	67	67	66	65	65
Fuel per Peak Auto Commuter (gallons)	19	19	19	19	19	19
Rank	47	45	42	40	40	27
Annual Delay						
Total Delay (1000s of person-hours)	14,629	14,263	14,033	13,676	13,532	13,213
Rank	68	68	68	68	67	65
Delay per Auto Commuter (pers-hrs)	38	37	36	36	35	35
Rank	71	71	72	69	71	68
Travel Time Index	1.16	1.16	1.17	1.17	1.17	1.17
Rank	58	55	47	43	41	43
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	312	300	290	280	265	252
Rank	68	68	68	68	66	65
Cost per Auto Commuter (\$)	736	727	724	728	743 59	737
Rank	64	64	61	63	39	56
Truck Congestion	501	5.65		544	520	505
Annual Person-Hours of Delay (000)	581	567	557	544	538 70	525
Rank Annual Gallons of Wasted Fuel (000)	75 1,028	75 1,020	75 1,013	70 1,006	1,005	67 999
Rank	75	75	75	74	74	73
Annual Congestion Cost (\$ million)	28	26	25	27	25	23
Rank	74	74	71	68	65	67
Annual Greenhouse Gases (CO2) Produced	, ,	, ,	, 1	00	03	
Excess Due to Congestion (tons)						
Rank						
Due to All Travel (tons)		<u></u>				
Rank						
Truck Annual Greenhouse Gases (CO2) Produced						
Excess Due to Truck Congestion (tons)						
Rank						
Due to Truck Travel (tons)						
					. I	
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)	715	715	715	710	700	690
Rank	56	56	56	56	55	55
Commuters (1000s)	356	354	352	347	340	333
Daily Vehicle-Miles of Travel (1000s)						
Freeway	5,860	6,000	6,050	5,950	5,875	5,775
Arterial Streets	6,000	5,535	5,100	4,800	4,550	4,275
Cost Components						
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)	3.55	3.19	2.82	2.40	2.14	1.62
Diesel (\$/gallon)	4.52	3.71	3.03	2.66	2.14	1.73
System Performance	2008	2007	2006	2005	2004	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)	6,350	7,048	6,692	6,515	6,131	5,734
Rank	69	62	62	62	63	67
Fuel per Peak Auto Commuter (gallons)	17	22	21	21	20	19
Rank	61	19	24	20	21	23
Annual Delay						
Total Delay (1000s of person-hours)	12,387	13,749	13,053	12,709	11,961	11,185
Rank	71	62	62	61	64	66
Delay per Auto Commuter (pers-hrs)	33	36	35	35	34	34
Rank	73	59	62	59	60	58
Travel Time Index	1.17	1.18	1.17	1.17	1.16	1.15
Rank	51	43	51	49	55	62
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	245	260	237	222	200	179
Rank	71	62	61	60	63	67
Cost per Auto Commuter (\$)	686	791	771	776	756	725
Rank	63	49	48	50	54	56
Truck Congestion	402	5.4.6	510	505	47.5	444
Annual Person-Hours of Delay (000)	492	546	519	505	475	444
Rank	74	1 002	1 027	1 000	67	69
Annual Gallons of Wasted Fuel (000) Rank	984 75	1,092 72	1,037 70	1,009 69	950 70	888 71
Rank Annual Congestion Cost (\$ million)	23	72 24	21	20	18	16
Rank	73	65	67	65	66	65
Annual Greenhouse Gases (CO2) Produced	/3	03	07	03	00	0.5
Excess Due to Congestion (tons)				I		
Rank						
Due to All Travel (tons)						 -
Rank				<u></u>		
Truck Annual Greenhouse Gases (CO2) Produced						
Excess Due to Truck Congestion (tons)						_
Rank						 -
Due to Truck Travel (tons)						 
Rank		<u></u>		 		

<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)	675	665	650	640	635	630
Rank	55	56	58	58	58	57
Commuters (1000s)	323	314	302	294	289	282
Daily Vehicle-Miles of Travel (1000s)						
Freeway	5,650	5,600	5,510	5,365	5,260	5,235
Arterial Streets	4,050	3,800	3,610	3,445	3,465	3,350
Cost Components						
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)	1.49	1.72	1.64	1.19	1.15	1.31
Diesel (\$/gallon)	1.51	1.70	1.65	1.24	1.29	1.39
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)	5,160	4,899	4,730	4,583	4,465	4,322
Rank	71	70	69	68	64	61
Fuel per Peak Auto Commuter (gallons)	17	16	14	14	13	14
Rank	34	36	50	42	42	26
Annual Delay						
Total Delay (1000s of person-hours)	10,065	9,557	9,227	8,940	8,708	8,432
Rank	70	70	70	69	67	66
Delay per Auto Commuter (pers-hrs)	33	32	32	32	31	31
Rank	59	65	61	57	56	49
Travel Time Index	1.14	1.14	1.13	1.13	1.13	1.13
Rank	68	66	72	70	63	60
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	157	148	139	128	122	117
Rank	70	71	71	69	67	66
Cost per Auto Commuter (\$)	667	642	637	639	637	623
Rank	67	66	61	61	58	53
Truck Congestion						
Annual Person-Hours of Delay (000)	400	379	367	355	346	335
Rank	71	71	70	70	70	69
Annual Gallons of Wasted Fuel (000)	800	759	733	710	691	670
Rank	72	72	72	71	70	68
Annual Congestion Cost (\$ million)	13	12	12	11 69	10	10
Rank	71	71	70	69	70	66
Annual Greenhouse Gases (CO2) Produced				ı	I	
Excess Due to Congestion (tons)						
Rank						
Due to All Travel (tons)  Rank						
Truck Annual Greenhouse Gases (CO2) Produced				ı	I	
Excess Due to Truck Congestion (tons)						
Rank Due to Travel (Travel (tons)						
Due to Truck Travel (tons)						
Rank						

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

Rank	Inventory Measures	1996	1995	1994	1993	1992	1991
Population (100bs)	Urban Area Information						
Ramk		625	625	620	620	620	615
Daily Vehicle-Miles of Travel (1000s)   Freeway   S,335   S,265   S,020   4,900   4,765   4,4     Antraial Streetes   3,205   3,205   3,245   3,155   3,235   3,205     Cost Components   Value of Time (Schour)   11.71   11.37   11.06   10.78   10.47   10.     Commercial Cost (Schour)   28.12   27.75   27.38   27.02   26.66   26.     Gaschine (Sigallon)   1.37   1.27   1.15   1.21   1.24   1.     Diesel (Sigallon)   1.28   1.19   1.07   1.13   1.00   1.     System Performance   1996   1995   1994   1993   1992   1991     Congested Travel (W of peak VMT)		57	55	54	52	52	52
Freeway	Commuters (1000s)	277	273	268	264	261	256
Freeway	Daily Vehicle-Miles of Travel (1000s)						
Arterial Sirects		5,325	5,265	5,020	4,900	4,765	4,480
Nature of Time (Schour)   11.71   11.37   11.06   10.78   10.47   10.	Arterial Streets	3,205	3,205	3,245	3,155	3,235	3,010
Nature of Time (Schour)   11.71   11.37   11.06   10.78   10.47   10.	Cost Components						
Gasoline (S/gallon)	_	11.71	11.37	11.06	10.78	10.47	10.17
Diesel (\$\square\squa	Commercial Cost (\$/hour)	28.12	27.75	27.38	27.02	26.66	26.30
System Performance   1996   1995   1994   1993   1992   1991	Gasoline (\$/gallon)	1.37	1.27	1.15	1.21	1.24	1.21
Congested Travel (% of peak VMT)	Diesel (\$/gallon)	1.28	1.19	1.07	1.13	1.00	1.35
Congested System (% of lane-miles)	System Performance	1996	1995	1994	1993	1992	1991
Congested Time (number of "Rush Hours")	Congested Travel (% of peak VMT)						
Annual Excess Fuel Consumed   Total Fuel (1000 gallons)							
Total Fuel (1000 gallons)	Congested Time (number of "Rush Hours")						
Rank	Annual Excess Fuel Consumed						
Fuel per Peak Auto Commuter (gallons)   13   13   12   10   10   10   Rank   29   19   21   38   24	Total Fuel (1000 gallons)	4,142	3,997	3,571	3,324	3,306	3,150
Rank						59	59
Annual Delay   Total Delay (1000s of person-hours)   8,081   7,797   6,966   6,485   6,450   6,1						·	10
Total Delay (1000s of person-hours)	Rank	29	19	21	38	24	19
Rank   66   64   65   66   61     Delay per Auto Commuter (pers-hrs)   30   29   27   25   25     Rank   49   48   51   53   45     Travel Time Index   1.13   1.12   1.11   1.10   1.11   1.   Rank   50   57   60   64   49     Commuter Stress Index               Rank               Rank             Rank             Rank             Rank             Rank             Total Cost (\$ millions)   110   103   89   81   79     Rank   65   64   65   66   61     Cost per Auto Commuter (\$)   612   610   561   538   553   55     Rank   49   47   47   46   43     Truck Congestion   321   310   277   258   256   2     Rank   68   66   68   66   64     Annual Person-Hours of Delay (000)   321   310   277   258   256   2     Rank   69   68   68   69   66     Annual Congestion Cost (\$ million)   9   9   8   7   7     Rank   69   68   68   69   66     Annual Greenhouse Gases (CO2) Produced   Excess Due to Congestion (tons)               Excess Due to Congestion (tons)               Rank                   Rank                 Rank                   Rank	Annual Delay						
Delay per Auto Commuter (pers-hrs)   30   29   27   25   25   25   Rank   49   48   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   53   45   51   51   51   51   51   51   51		8,081	7,797		6,485	6,450	6,145
Rank						-	61
Travel Time Index							24
Rank		49	48	51	53	45	43
Commuter Stress Index							1.10
Rank		50	57	60	64	49	51
Freeway Planning Time Index (95th Petile)							
Rank   -							
Congestion Cost         110         103         89         81         79           Rank         65         64         65         66         61           Cost per Auto Commuter (\$)         612         610         561         538         553         5           Rank         49         47         47         46         43           Truck Congestion           Annual Person-Hours of Delay (000)         321         310         277         258         256         2           Rank         68         66         68         66         64         64           Annual Gallons of Wasted Fuel (000)         642         619         553         515         512         4           Rank         69         68         68         69         66           Annual Congestion Cost (\$ million)         9         9         8         7         7           Rank         67         64         64         66         62           Annual Greenhouse Gases (CO2) Produced         8         8         6         6         6         6         6         6         6         6         6         6         6         6         6							
Total Cost (\$ millions)							
Rank       65       64       65       66       61         Cost per Auto Commuter (\$)       612       610       561       538       553       5         Rank       49       47       47       46       43         Truck Congestion         Annual Person-Hours of Delay (000)       321       310       277       258       256       2         Rank       68       66       68       66       64         Annual Gallons of Wasted Fuel (000)       642       619       553       515       512       4         Rank       69       68       68       69       66         Annual Congestion Cost (\$ million)       9       9       8       7       7         Rank       67       64       64       66       62         Annual Greenhouse Gases (CO2) Produced       50 <td>C</td> <td>110</td> <td>102</td> <td>00</td> <td>0.1</td> <td></td> <td>72</td>	C	110	102	00	0.1		72
Cost per Auto Commuter (\$)       612       610       561       538       553       5         Rank       49       47       47       46       43         Truck Congestion         Annual Person-Hours of Delay (000)       321       310       277       258       256       2         Rank       68       66       68       66       64         Annual Gallons of Wasted Fuel (000)       642       619       553       515       512       4         Rank       69       68       68       69       66         Annual Congestion Cost (\$ million)       9       9       8       7       7         Rank       67       64       64       66       62         Annual Greenhouse Gases (CO2) Produced	· · · · · ·						73
Rank       49       47       47       46       43         Truck Congestion         Annual Person-Hours of Delay (000)       321       310       277       258       256       2         Rank       68       66       68       66       64         Annual Gallons of Wasted Fuel (000)       642       619       553       515       512       4         Rank       69       68       68       69       66         Annual Congestion Cost (\$ million)       9       9       8       7       7         Rank       67       64       64       66       62         Annual Greenhouse Gases (CO2) Produced   -							60 542
Truck Congestion         Annual Person-Hours of Delay (000)       321       310       277       258       256       2         Rank       68       66       68       66       64         Annual Gallons of Wasted Fuel (000)       642       619       553       515       512       4         Rank       69       68       68       69       66         Annual Congestion Cost (\$ million)       9       9       8       7       7         Rank       67       64       64       66       62         Annual Greenhouse Gases (CO2) Produced </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>543 39</td>							543 39
Annual Person-Hours of Delay (000)  Rank 68 66 68 66 68 66 64  Annual Gallons of Wasted Fuel (000) 642 619 553 515 512 4  Rank 69 68 68 69 66  Annual Congestion Cost (\$ million) 9 9 9 8 7 7  Rank 67 64 64 66 62   Annual Greenhouse Gases (CO2) Produced  Excess Due to Congestion (tons)		49	4/	47	40	43	39
Rank       68       66       68       66       64         Annual Gallons of Wasted Fuel (000)       642       619       553       515       512       4         Rank       69       68       68       69       66         Annual Congestion Cost (\$ million)       9       9       8       7       7         Rank       67       64       64       66       62         Annual Greenhouse Gases (CO2) Produced       Excess Due to Congestion (tons)  <		221	210	277	250	256	244
Annual Gallons of Wasted Fuel (000) 642 619 553 515 512 4  Rank 69 68 68 69 66  Annual Congestion Cost (\$ million) 9 9 8 7 7  Rank 67 64 64 66 62   Annual Greenhouse Gases (CO2) Produced  Excess Due to Congestion (tons)	• • •						64
Rank       69       68       68       69       66         Annual Congestion Cost (\$ million)       9       9       8       7       7         Rank       67       64       64       66       62         Annual Greenhouse Gases (CO2) Produced   -							488
Annual Congestion Cost (\$ million)       9       9       8       7       7         Rank       67       64       64       66       62             Annual Greenhouse Gases (CO2) Produced         Excess Due to Congestion (tons)	` '						65
Rank     67     64     64     66     62       Annual Greenhouse Gases (CO2) Produced     Street of Congestion (tons) <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td></th<>							7
Annual Greenhouse Gases (CO2) Produced							57
Excess Due to Congestion (tons) Rank		07	01	01		02	
Rank	·						
	÷						
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	1990	1989	1988	1987	1986	1985
Urban Area Information						
Population (1000s)	615	615	610	605	600	600
Rank	52	52	50	49	48	48
Commuters (1000s)	252	250	247	242	239	237
Daily Vehicle-Miles of Travel (1000s)						
Freeway	4,355	4,005	3,705	3,600	3,425	3,265
Arterial Streets	2,805	2,645	2,520	2,520	2,520	2,570
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)	1.07	1.13	1.04	1.05	1.02	1.34
Diesel (\$/gallon)	1.09	1.05	0.97	0.97	0.95	1.24
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						<u> </u>
Total Fuel (1000 gallons)	3,035	2,652	2,530	2,297	2,174	1,929
Rank	56	57	58	58	57	57
Fuel per Peak Auto Commuter (gallons)	10	8	9	7	8	6
Rank	14	26	13	22	14	22
Annual Delay						
Total Delay (1000s of person-hours)	5,920	5,173	4,935	4,481	4,240	3,762
Rank	57	59	58	59	58	60
Delay per Auto Commuter (pers-hrs)	24	21	20	18	18	16
Rank	39	45	44	48	42	45
Travel Time Index	1.10	1.09	1.08	1.08	1.07	1.07
Rank	47	49	49	45	49	48
Commuter Stress Index						
Rank						
Freeway Planning Time Index (95th Pctile)						
Rank						
Congestion Cost						
Total Cost (\$ millions)	68	56	51	45	41	37
Rank	57	59	58	59	58	57
Cost per Auto Commuter (\$)	543	501	506	481	470	426
Rank	33	38	35	33	31	33
Truck Congestion						
Annual Person-Hours of Delay (000)	235	205	196	178	169	150
Rank	61	63	61	61	61	60
Annual Gallons of Wasted Fuel (000)	470	411	392	356	337	299
Rank	63	65	63	63	61	60
Annual Congestion Cost (\$ million)	6	5	5	4	4	52
Rank	59	61	59	61	58	53
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)						
Rank						
Due to Truck Travel (tons)						
Rank						

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

Inventory Measures	1984	1983	1982
Urban Area Information			
Population (1000s)	600	620	640
Rank	48	45	43
Commuters (1000s)	235	241	246
Daily Vehicle-Miles of Travel (1000s)			
Freeway	3,120	2,870	2,760
Arterial Streets	2,400	2,350	2,415
Cost Components			·
Value of Time (\$/hour)	7.75	7.43	7.20
Commercial Cost (\$/hour)	23.94	23.63	23.31
Gasoline (\$/gallon)	1.35	1.38	1.44
Diesel (\$/gallon)	1.25	1.28	1.34
System Performance	1984	1983	1982
Congested Travel (% of peak VMT)			
Congested System (% of lane-miles)			
Congested Time (number of "Rush Hours")			
Annual Excess Fuel Consumed			
Total Fuel (1000 gallons)	1,810	1,712	1,577
Rank	54	52	52
Fuel per Peak Auto Commuter (gallons)	5	5	4
Rank	27	22	19
Annual Delay			
Total Delay (1000s of person-hours)	3,530	3,340	3,076
Rank	56	54	54
Delay per Auto Commuter (pers-hrs)	15	14	12
Rank	45	44	47
Travel Time Index	1.06	1.06	1.05
Rank	50	45	51
Commuter Stress Index			
Rank			
Freeway Planning Time Index (95th Pctile)			
Rank			
Congestion Cost			
Total Cost (\$ millions)	33	31	27
Rank	56	53	54
Cost per Auto Commuter (\$)	408	416	391
Rank	33	29	31
Truck Congestion			
Annual Person-Hours of Delay (000)	140	133	122
Rank	58	57	57
Annual Gallons of Wasted Fuel (000)	280	266	244
Rank	61	59	59
Annual Congestion Cost (\$ million)	3	3	3
Rank	58	54	50
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.