

Table 3. Solutions to Congestion Problems, 2007

Urban Area	Operational Treatment Savings			Public Transportation Savings			
	Treatments	Delay (1000 Hours)	Rank	Cost (\$ Million)	Delay (1000 Hours)	Rank	Cost (\$ Million)
Very Large Average (14 areas)		15,413		324.6	39,784		848.2
Los Angeles-Long Beach-Santa Ana CA	r,i,s,a,h	60,576	1	1,286.1	32,348	3	588.8
New York-Newark NY-NJ-CT	r,i,s,a,h	40,466	2	863.7	319,247	1	6,929.2
San Francisco-Oakland CA	r,i,s,a,h	17,675	3	360.8	31,835	4	658.9
Houston TX	r,i,s,a,h	15,201	4	300.8	5,902	13	103.0
Miami FL	i,s,a,h	13,443	5	269.2	10,026	10	191.1
Dallas-Fort Worth-Arlington TX	r,i,s,a,h	11,186	6	221.8	5,486	14	111.1
Washington DC-VA-MD	r,i,s,a,h	10,517	7	216.1	26,285	5	521.1
Atlanta GA	r,i,s,a,h	9,426	8	215.0	10,474	9	224.8
Chicago IL-IN	r,i,s,a	8,038	10	179.5	48,751	2	1,121.1
Philadelphia PA-NJ-DE-MD	r,i,s,a	7,856	11	165.1	22,538	7	472.6
Seattle WA	r,i,s,a,h	6,802	12	145.6	12,521	8	261.4
Phoenix AZ	r,i,s,a,h	5,359	15	121.4	2,566	21	59.8
Boston MA-NH-RI	i,s,a	4,929	16	106.7	26,266	6	573.8
Detroit MI	r,i,s,a	4,313	19	92.9	2,732	19	57.4
Large Average (29 areas)		2,149		44.6	2,029		42.3
San Diego CA	r,i,s,a	8,309	9	170.0	7,832	12	161.7
Riverside-San Bernardino CA	r,i,s,a,h	5,505	13	123.5	1,397	30	27.7
Minneapolis-St. Paul MN	r,i,s,a,h	5,457	14	109.6	3,900	17	79.4
San Jose CA	r,i,s,a	4,396	17	86.4	2,375	22	46.9
Tampa-St. Petersburg FL	i,s,a	4,378	18	86.5	1,250	32	24.3
Sacramento CA	r,i,s,a,h	3,877	20	80.7	1,865	25	37.0
Baltimore MD	i,s,a	3,568	21	79.8	9,474	11	216.0
Denver-Aurora CO	r,i,s,a,h	3,554	22	71.3	5,033	15	101.6
Portland OR-WA	r,i,s,a,h	2,922	23	61.6	4,771	16	98.0
Orlando FL	i,s,a	2,613	24	53.0	1,572	27	31.7
Virginia Beach VA	i,s,a,h	1,947	25	39.5	913	38	18.6
Las Vegas NV	i,s,a	1,661	26	33.0	1,723	26	35.4
Jacksonville FL	i,s,a	1,475	27	30.1	511	43	10.4
San Antonio TX	i,s,a	1,386	28	27.8	1,455	29	29.0
St. Louis MO-IL	i,s,a	1,323	29	27.9	2,031	23	43.2
Milwaukee WI	r,i,s,a	1,296	30	26.7	1,071	35	22.1
Austin TX	i,s,a	1,209	31	25.1	1,472	28	30.6
Columbus OH	r,i,s,a	1,002	32	21.8	451	45	9.5
Memphis TN-MS-AR	i,s,a	965	34	21.2	372	50	7.9
Charlotte NC-SC	i,s,a	910	35	19.8	946	37	20.4
Cincinnati OH-KY-IN	r,i,s,a	793	37	17.1	1,328	31	28.4
Indianapolis IN	i,s,a	697	42	15.5	431	48	9.5
New Orleans LA	i,s,a	675	44	14.6	1,075	34	23.4
Cleveland OH	i,s,a	505	49	10.3	1,227	33	24.6
Raleigh-Durham NC	i,s,a	491	50	10.9	723	39	15.5
Kansas City MO-KS	i,s,a	486	51	10.1	240	55	5.0
Pittsburgh PA	i,s,a	431	55	8.7	1,957	24	39.1
Providence RI-MA	i,s,a	324	57	6.5	989	36	19.1
Buffalo NY	i,s,a	160	65	3.6	451	45	9.8
90 Area Total		290,824		6,105.3	630,149		13,390.7
90 Area Average		3,231		68.0	7,002		149.0
Remaining Areas							
48 Areas Over 250,000 - Total		8,165		178.9	6,891		150.9
48 Areas Over 250,000 - Average		170		3.7	144		3.1
301 Areas Under 250,000 - Total		9,239		179.6	8,874		187.9
301 Areas Under 250,000 - Average		31		0.6	29		0.6
All 439 Areas Total		308,319		6,463.8	645,914		13,729.5
All 439 Areas Average		702		14.7	1,471		31.3

Very Large Urban Areas—over 3 million population.

Large Urban Areas—over 1 million and less than 3 million population.

Operational Treatments – Freeway incident management (i), freeway ramp metering (r), arterial street signal coordination (s), arterial street access management (a) and high-occupancy vehicle lanes (h).

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

Delay savings are affected by the amount of treatment or service in each area, as well as the amount of congestion and the urban area population.

Note: Please do not place too much emphasis on small differences in the rankings. There may be little difference in congestion between areas ranked (for example) 6th and 12th. The actual measure values should also be examined.

Also note: The best congestion comparisons use multi-year trends and are made between similar urban areas.

Table 3. Solutions to Congestion Problems, 2007, Continued

Urban Area	Operational Treatment Savings				Public Transportation Savings		
	Treatments	Delay (1000 Hours)	Rank	Cost (\$ Million)	Delay (1000 Hours)	Rank	Cost (\$ Million)
Medium Average (31 areas)		354		7.4	414		8.4
Tucson AZ	i,s,a	994	33	22.3	571	41	12.9
Nashville-Davidson TN	i,s,a	893	36	19.6	407	49	8.6
Omaha NE-IA	i,s,a	765	38	15.2	161	67	3.2
Bridgeport-Stamford CT-NY	i,s,a	744	39	16.4	248	53	5.4
Albuquerque NM	i,s,a	734	40	15.8	237	56	5.2
Birmingham AL	i,s,a	723	41	16.6	160	68	3.4
Louisville KY-IN	i,s,a	682	43	14.9	501	44	10.9
Sarasota-Bradenton FL	i,s,a	564	45	10.9	135	73	2.6
Fresno CA	r,i,s,a	529	46	11.3	224	58	4.7
El Paso TX-NM	i,s,a	515	47	10.3	546	42	11.1
Salt Lake City UT	r,i,s,a	513	48	10.5	2,672	20	52.9
Oxnard-Ventura CA	i,s,a	468	52	9.3	257	52	5.3
Hartford CT	i,s,a	440	54	8.9	670	40	13.4
Richmond VA	i,s,a	274	58	5.4	435	47	8.6
Honolulu HI	i,s,a	245	59	4.8	3,045	18	59.2
Allentown-Bethlehem PA-NJ	r,i,s,a	204	61	4.3	202	60	4.1
Colorado Springs CO	i,s,a	197	62	3.8	222	59	4.4
New Haven CT	i,s,a	197	62	4.0	138	71	2.8
Grand Rapids MI	s,a	188	64	3.7	245	54	5.0
Albany-Schenectady NY	i,s,a	145	66	3.2	271	51	5.8
Indio-Cathedral City-Palm Springs CA	i,s,a	145	66	3.0	118	76	2.4
Bakersfield CA	i,s,a	144	68	3.0	175	63	3.8
Oklahoma City OK	i,s,a	131	69	2.7	95	79	1.9
Rochester NY	i,s,a	113	72	2.3	146	69	2.9
Dayton OH	s,a	85	74	1.6	169	65	3.6
Poughkeepsie-Newburgh NY	s,a	82	75	1.6	199	61	4.0
Tulsa OK	i,s,a	78	76	1.6	51	86	1.0
Lancaster-Palmdale CA	s,a	64	78	1.3	190	62	3.7
Springfield MA-CT	i,s,a	64	78	1.3	119	75	2.3
Akron OH	i,s,a	24	86	0.5	73	82	1.5
Toledo OH-MI	i,s,a	23	87	0.5	141	70	3.0
Small Average (16 areas)		110		2.3	95		2.0
Cape Coral FL	i,s,a	456	53	9.3	137	72	2.8
Knoxville TN	i,s,a	373	56	8.0	48	87	1.0
Little Rock AR	i,s,a	213	60	4.7	12	90	0.2
Charleston-North Charleston SC	i,s,a	122	70	2.7	117	77	2.4
Pensacola FL-AL	s,a	114	71	2.2	57	84	1.2
Columbia SC	i,s,a	98	73	2.4	170	64	3.9
Spokane WA	i,s,a	75	77	1.6	168	66	3.6
Salem OR	s,a	54	80	1.0	111	78	2.3
Eugene OR	i,s,a	52	81	1.1	230	57	4.7
Anchorage AK	s,a	50	82	1.0	120	74	2.4
Laredo TX	i,s,a	36	83	0.8	94	80	1.9
Wichita KS	i,s,a	32	84	0.6	45	88	0.9
Boulder CO	s,a	26	85	0.5	52	85	1.0
Corpus Christi TX	s,a	23	87	0.5	65	83	1.3
Brownsville TX	s,a	18	89	0.4	75	81	1.5
Beaumont TX	s,a	13	90	0.2	15	89	0.3
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